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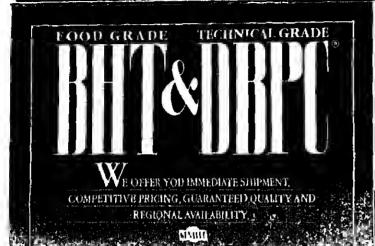
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	appears alongside with data for
	two weeks ago, last month and
Ì	Chemical Prices Start on Page 36

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Peroxide Outlook

INSIDE CMR

HELENALISH

DRUG EXPORT: PMA seeks White House aupport of bill that would make it easier to export drugs. Compensation provision could cause problems. . Page 3

EUROPE'S FEEDS: US exports of propylene could make up for a shortfall of supplias in Europe caused by a switch to ichter feedstocks.....Page

LEGISLATIVE: Shifts in the leaderhelp of Senate committees important to the chemical industry will occur ragardless of which party wins Page 5

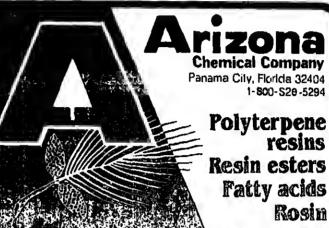
OZONE SHIELD: 'Holes' in the Earth's protective ozone shield may or may not be result atmospheric chemical breakdown products Page 7

CHEMICAL EARNINGS: Du Pont and Allied-Signel racord gains, as do Celanese and American Cyanamid, Pennwait averses results Page 9

ACRYLO: Producers experience aomething of a merkat filpflop as strong demand for fiber and exports push up requirements Page 7

MONTEDISON DROPS: The Big Italian company's pursuit of he troubled Swadish blotachnology company, Farmenta AB,

AN Business Stials cel Finance ICAI Prices Complete News Index on Back Cover



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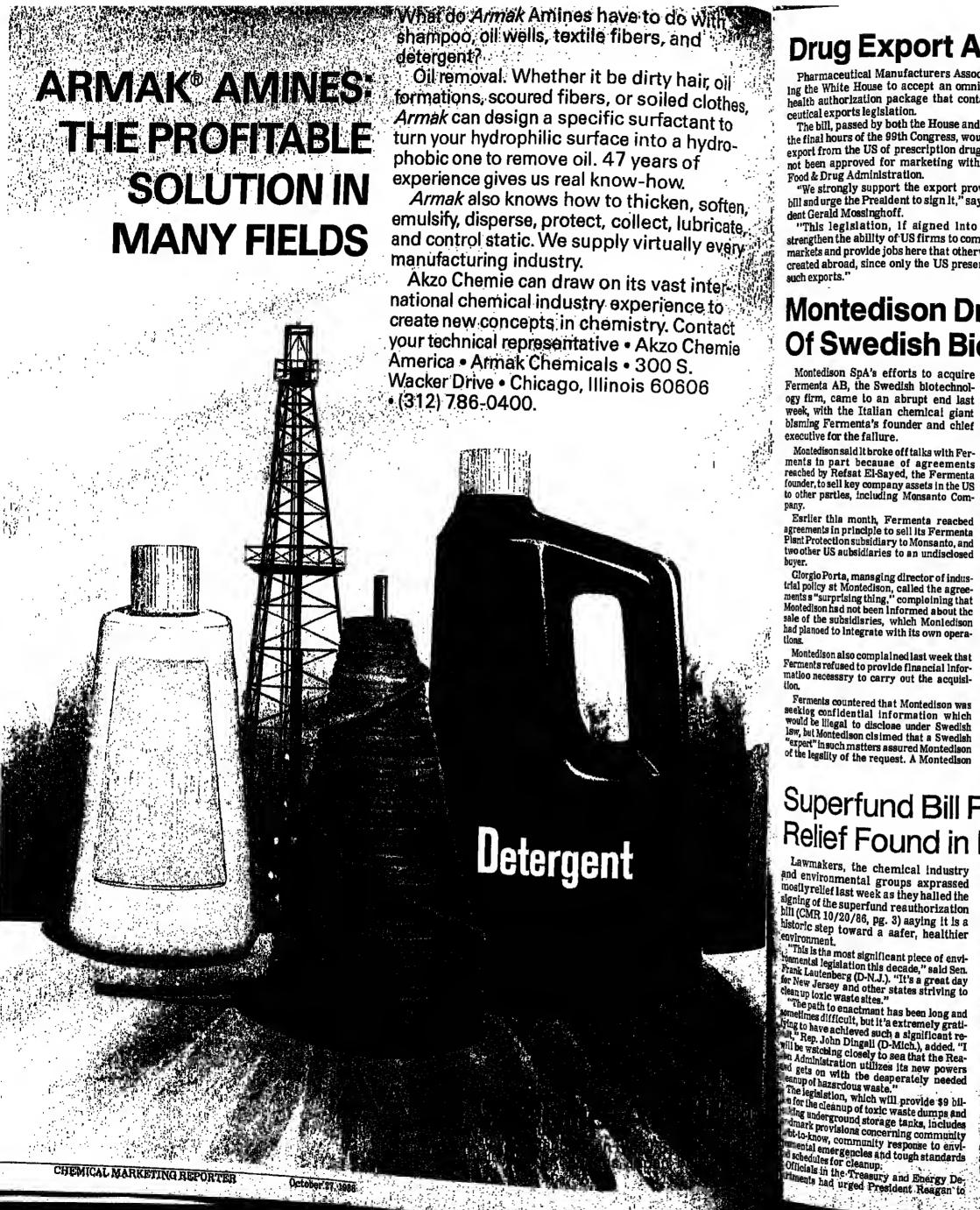
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Drug Export Action Pressed

Montedison Drops Pursuit

ldentify the expert.

company, for \$340 million.

concern about a Montedison takeover, so

Montedison agreed in concept to a plan under

which it would initially acquire only part of Mr. El-Sayed's holding in Fermenta. After a

trs nsition period, during which Mr. El-Sayed would remain as chief executive, Montedison

Mr. El-Sayed subaequently sold half of his

6 million A shares in Fermenta to three sepa-

rate Swedish institutions. Two were prepared to sell back their Fermenta shares, but

a third — Procordla AB — reportedly ac-

quired the shares for strategic purposes. Pro-

cordia ia also said to hold an option to acquire

told a Montedison ahareholdera' meeting

early last month that the company would

pursue an "alternative" acquisition if an

agreement were not reached by November

30 assuring Montedison eventual control of

The Montedison chairman sald at the time

that the company had an "equivalent" acqui-

sition on standby, but last week, the company sald only that it was holding talks with US and European firma about "possible sequisi-

tions and joint ventures" in the biotechnology

broad-based corporate tsx and lts high levy

But in light of the legislation's overwhelm-

ing support in Congress, the President chose to heed the advice of Environmental Protec-

tion Agency Administrator Lee M. Thomas,

who had warned that a veto would end the

cleanup program and throw his agency into

"The blil's financing has some real con-cerns," said President Reagan, "but the

health and safaty of Americans is among the

highest priorities of government, so wa will

not allow an interruption in the cleanup proc-

EPA will spend only what is necessary to

accomplish the objectives of the program,

and by Senate Majority leader Robert Dole (R-Kan.) that Congress will not increase the

superfund tax or use it to pay for other pro-

six cleanups during the first five years of the

auperfund program, sald the new law ensures

that EPA now has the resources to do the joh. "There should be no more excuses for inac-Continued on Page 27

Environmentalists, who have complained that the administration has completed only

He said he was assured by Mr. Thomas that

Montedlson chairman Mario Schimbern

an additional 3 million A shares.

would acquire the remaining ahares.

Of Swedish Biotech Firm

Pharmaceutical Manufacturers Association is urging the White House to accept an omnibus drug and health authorization package that contains pharmaceutical exports legislation.

The bill, passed by both the House and the Senate In the final hours of the 99th Congress, would permit the export from the US of prescription drugs which have not been approved for marketing within the US by

"We strongly support the export provisions of the bill and urge the Prealdent to sign It," says PMA president Gerald Mossinghoff.

"This legislation, if aigned into law, would strengthen the ability of US firms to compete in world markets and provide jobs here that otherwise would be created abroad, since only the US presently prohibits such exports."

Montedison SpA's efforts to acquire

Fermenta AB. the Swedish blotechnol-

ogy firm, came to an abrupt end last week, with the Italian chemical giant blsming Fermenta's founder and chief

Montedison sald It broke off talks with Fer-

ments in part because of agreements

reached by Refsat El-Sayed, the Fermenta

founder, to sell key company assets in the US to other parties, including Monsanto Com-

Esrlier thia month, Fermenta reached

agreements in principle to sell its Fermenta Pisnt Protection subsidiary to Monsanto, and

two other US aubsidiaries to an undisclosed

Glorgio Porta, mansging director of indus-trial policy st Montedison, called the agree-

ments s "surprising thing," compleining that

Montedison had not been Informed about the

sale of the subsidisries, which Monledison

had planoed to Integrate with its own opera-

Montedison also complained last week that

Ferments refused to provide financial infor-

mation necessary to carry out the acquisi-

Ferments countered that Montedison was

seeking confidential information which

would be lilegal to disclose under Swedish

lsw, but Montedison claimed that a Swedish

"expert" in such matters assured Montedison of the legality of the request. A Montedison

Lawmakers, the chemical industry

and environmental groups axprassed

mostly relief last week as they halled the

signing of the superfund reauthorization

bill (CMR 10/20/86, pg. 3) aaying it is a

historic step toward a aafer, healthier

This is the most significant piece of envi-

Frank Lautenberg (D-N.J.). "It's a great day

in up toxic waste sites."

mental legislation this decade," said Sen.

New Jersey and other states striving to

The path to enactment has been long and

g to have achieved such a significant re-

eanup of hazsrdous waste."
The legislistion, which will provide \$9 bil-

dmark provisions concerning community bt to know, community response to envi-

ental emergencies and tough standards

imes difficult, but it'a extremely grati-

p. John Dingali (D-Mich.), added. "I

Superfund Bill Reaction:

Relief Found in Most Quarters

executive for the fallure.

The package, however, faces an uncertain future at the White House because it also includes a provision to create a Federal "no fault" compensation system for victims of childhood vaccines.

The Reagan Administration has endorsed the drug export bill, but atrongly opposes the vaccine injury compensation legislation.

Rep. Henry Waxman (D.-Callf.) the chief sponsor fo of the vaccine bill, said a growing number of parents are taking on the heavy financial burden of suing vaccine manufacturers on behalf of their injured children. Many states do not allow children to win lawsuits

Continued on Paga 25

DRUG FINISHING IN ARGENTINA: US pharmacautical makers maintain that undar current law thay must either build plants abroad or license to foreign producers.



Chemical Marketing Under a preliminary agreement reached in July, Montedison was to purchase Mr. El-Sayed's 76.5 percent voting control of the Reporter Fermenta's unions, however, expressed

Peroxide Makers Look To New Applications

North American hydrogen peroxide file is used, they say, but mainly in making producers are looking at new applications to fill a wide aupply and demand gap that is developing as new capacity comes on stream. The broad range of potential new markets seems to ensure

the gap will be filled. The addition of new capacity, however, is s very real and formidable obstacle. Du Pont Canada expects its 80-mllllon-pound-peryear Maitland, Ontarlo, plant will be on stream by January. Deguasa Corporation says its equally large plant will be completed some time in the Spring. Lastiy, Oxychem Canada, a venture involving Atochem and Liquid Air of France (fell the terms) Liquid Air of Franca (jointly known ss Oxysynthese) and the marketing network of C-I-L is scheduled to complete its 44-million-pound-per-year facility by Saptember of next

tended for overseas export. Degussa, for instance, expects to export at least 10 million ounds in its first year of operation. The material will go to markets such as the Far East. Africa and South America that are now serviced by the company's European facilities.

In addition, imports into the US by Degussa and into Canada hy Oxysynthese should be backed out ovar tha course of naxt year as the two companies', North Americao facilities

For the most part, however, producers are looking to new or expsoded markets to fill the supply gap. Most prominent, and the one producers expect to kick in first, is the pulp and paper industry. Producers say several new tharmome-changeal and chemimechanical pulping

(CTMP) operations are or will soon come on stream in Canada.

Observers say paper makers are moving to the CTMP method because of its high pulp yields: 30 percant of the tree is utilized as

opposed to only 50 to 55 percent in traditional chemical methods.

However, according to peroxide makers, to adbleve high brightness paper grades without overly degrading fiber structure, hydrogen peroxide is necessary in the bleaching stage of a CTMP process. Sodium hydrosul-

medium brightness grades.

While CTMP pulping will account for the

bulk of pulp and paper growth, Kraft pulpera are also expected to increase peroxide use in the next few years. Degussa, for instance, feels Kraft pulp makers in the Southeast will double their peroxide use next year, coming albeit, from a fairly small base.

The company notes that hydrogen peroxide can he added to a Kraft pulping process at a number of different stages without any significant changes in equipment. Moreover Degussa feels the pulp and paper industry in the Southeast has a good long-term outlook because the warmer temperature ensurea a

Continued on Paga 30



HYDROGEN PEROXIDE PLANT. Three new ones

October 27, 1986

CHEMICAL MARKETING REPORTER

Waste Rule for US Agency Under Fire on Capitol Hill

A bipertisan group of 70 members of Congress have urged Energy Secretery John Herrington to withdraw a controversial proposed rule that would allow Department of Energy to exempt mixed chemical end radioactive weste generated at its defense facilities from Federal and state regulations. "This proposed rule would ellow DOE to continue dumping some of its mixed waste directly into the ground, even though

this prectice hes resulted in serious conlamination of the groundwater and surface weter at some of DOE's facilities." aays Rep. Mike Syner (D-Okla.), cheirman of the House Government Operations aubcommittee on environment, energy end naturel resources.

He aiso notes that the privata sector, for the most part, has been probibited from disposing of similar waste in this manner.

Rep. Synar, who initiated tha latter to Mr. Herrington, first protested the rule when it was proposed by DOE last November. A publle hearing held by his subcommittee last July revealed a number of problems resulting from the way officals at DOE facilities were attempting to implement the rule even though it has not yet been adopted.

"At our hearing, we found that a large burial ground at the Savannah Rivar Plant in South Carolina contained a lot of vary nasty chomical hazardous wasta as well as radioactive waste, including 10 tons of mercury, 10,000 galiona of fluids containing toluena, xylone and other hazardous chemicals, al-most 200 pounds of PCB's, and 3,300 gallons

"DOE had known for some time that the groundwater heneath the hurlalground waa contaminated with marcury abova drinking Continued on Page 26

Carbon Dioxide Plant On Way for Airco

A new \$4 mlillon carbon dioxide plant is being built by Airco industrial Gases in Baitimorc, Md. Slated for May 1, 1987 start-up, production capacity of the new plant will he 180 tons per day of liquid CO2.

The Baltimore plant will be the eleventh ilquid CO2 facility owned and operated in the US hy Airco. Liquid product produced at the new site will be sold in the Northeast US, primarily for food freezing or chilling, beverage carbonation, and s varialy of industrial appiications.

The new plant is being hullt naxt to SCM Corporation's titanium dinxide facility from which Airco will draw its rsw product for ilquid CO2 production. Airco has contracted with Pisni Process Equipment, Inc., League City, Tex., for plant construction.

Carbide Set to Build Air Separation Plant

The Linde Division of Union Carbide Corporation aays that it will build an \$11.2 miiilon air separation plant in Mariatta, Obio, with construction sisted to begin in early 1987. The state-of-the-art facility will produce up to 300 tons per day of nitrogen, oxygen and argon, according to E.G. Hotard, vice-prealdent of Linde Buik Industrial Gases. it wili incorporate the latest enargysaving technology to operate with approximately 35 percent greater efficiency thatn previous designs.

"The new facility will he constructed adjacent to an Elkem Metsia plant, which it will provide with gaseous oxygen via pipeline." Mr. Hotard saya. In addition to supplying roduct to Elkam, the naw plant will produce oxygen, nitrogan and ergon in liquid form for othar Linde customers in southern Ohio and West Virginia.

"These cuatomars are currently helng aerved hy cryogenic transports that deliver ilquid oxygan from other air separation facilhe notes. "The Marictta piant will maka it possible for ua to provide even hetter appiy raliahllity. It also will give Linde the capacity to serve the future growth needs of the marketplace, and to meat the increasingly atringent quality requirements of our

Strontium Seen Strong **Despite Competition**

In apite of recession and competition from alternative materials, demand for strontium continued its strong growth in the first haif of the t880's, according to Roskill Information Services, Ltd., of the UK.

In terms of strontlum carbonate, damand ia expected to rise from 94,300 metric tons in 1985 to 105,000 in 1980 and srnund 27,000 metric tons by the turn of tha century, Roskiii saya in a new report on the metal. The rise of Mexico as a producer in tha early 1970's bas heen followed by the even higher risa of output in Turkey and Spain, and more recantly by considerable growth in Iran, Roskill com-

Carbide Specialty Polyolefins Unit Open for Business in New Jersey

Last week, Union Carhide Corporation of- velopment laboratories, information aysficially opened a new iechnology and operatems department, distribution operations tions center for its "Unipol" Specialty Poly-olefins Division in Somerset, N.J.



R&D IN NEW CAB: A Union carbide Specialty Phlyolelina tachnician tests resin for tensita

center and eastarn regional asles office will alt be based in the new canter.

onsolidation of research with administrstive and sales departments will offer customers faster access to technical service assistance, product and aafety data, and shipping and other information.

prassure pipe testing fecilities, savanced s wali as pilot-scala mixing lines, film and rotational moiding equipment.

Research at the facility currently centers on polyethylene, the largest-volume poly-olefin und the most widely used plastic in the world. Union Carhide has been involved with

powar and industriel cable and photodegradahie packaging applications. They are also

Continued on Page 57

Spokesmen for the company feel that this

In addition to polymer evaluation, wet and analytical chemistry lahs, the new Weston Canal Road unit features extansive high rheology, fire and electrical test labs and raw material evaluation facilities including iaser-read detectora. It includes banchthrough intermediate-scala compounding fa-

this market since its infancy in the early

Researchers at Somerset are focusing on

October 17, 1 6



Paul H. Williame, who has been named axacutiva vica-precident of Calanesa Canada inc. Ha was mnet racantly tachnical director of Calanaea Taxtlla Fibers in Cheriotta, NC.

Damon Biotech **Seeking Partner**

Damon Blotech, Needham Heights, Mass., last week said it is engaged in "serious discussions with a number of major multi-national pharmaceutical firms" relating to the development and marketing of the tissue piasminogen activator t-PA.

Currently, these discussions envision that Damon Biotech would manufacture t-PA using its proprietary technologies and a phar-maceutical firm would market the product and have primary reaponsibility for ohtaining necessary regulatory approvals in specific geographical areas.

Plasminogen activators are a new class of hiological products which show great promise in the treatment of cardiovascular diseases. Damon Blotech'a t-PA is produced hy the Company'a proprlatsry "Encapcei" and cellular enhancer systems. Test results from preliminary atudies of Damon Bio-Continued on Page 28

Miwon Plans to Build **Lysine Plant in Korea**

Miwon Inc., Seoul, Rapublic of Korea, says it plsns to construct a \$30 million i-lysine monohydrochloride production plant with an annual capacity of 20,000 metric tona in Kuasn city, Choilabuk-du Province, Rapublic of Korea. Construction ahould be completed in September 1987 and has aiready atarted.

Miwon currently operates a plant in Busan City, Korea, with 10,000 tons of capacity.

Miwon and three Japanese companies -Ojlnomoto, Kyowa Hakko and Toray — are the world'a major producers. Mi won now exports 80 percent of the product. The naw plant will axport about \$50 million of the feed ditive annually which the company says, will increase Miwon's share of the international market from 10 percent to 20 percent.

Clean Water Bill **Urged by Lawmakers**

Lawmakars and environmantal groupa called on President Reagan last week to promptly sign the reauthorization of the House by a 408-0 vote and was peased unanict, which sailed through the mously by the Senate, 96-0. While Houaa budget director James Miliar

ia recommending that the President veto the measure because it is a "budget huater" that will increase the Faderal daficit,

The legislation, which calls for an expanditure of \$16 billion over the next ten years for aewaga treetment facilities, was delivered to the White House Friday, giving the President until November 6 to sign or pockat veto tha

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UK ETHYLENE CRACKER: Switch to lightar feeds is major factor in current European probem shortaga.

Acrylonitrile: Fiber Position Causes Change

Acrylonitrile producers are experiencing something of a flip-flop in the marketplace. After several years of weak domestic demand for acrylic fiber and strong export volumes, the position has been somewhat reversed. US acrylic fiber makers are in the midst of a strong revival, while the world market is now

long in supply and weak in pricing. US acrylic fiber producera have been helped by higher priced imports, brought on by the weaker dollar, and by fashion trends favoring acylic fibers. The producers have helped themselves by trimming capacity in the past two years by 10 percent.

The fashion emphasis has been on lightweight, brightly colored sweaters made from acrylle. And while demand for acrylic sweaters is up significantly, other fleecewear products, such as sweatsuits, are performing well.

These factors bave helped produce a strong domestic acrylic fiber market. Another important factor, one aource says, has been increased productivity at the textile mills. The effect has been an 18 percent uplum in domestic acrylic and modacrylic fiber shipments through the first nine months of 1986, according to the Textilea Economics

Continued on Paga 18

Thalidomide Bill Aiding Ohio Man Escapes Veto

A privale relief bill that will give an Ohio man born with deformed legs an opportunity to prove in court that he was the violim of the drug thalldomide and to seek damages from the government wes signed Into law by President Reagan last

The bill, which waives the statute of limi-islions to allow Steven M. McKenna of Cieveland to sua the Federal government for money damages for congenital defects, was accepted by the adminis Department reversed ita position and recommended that the Prealdent sign the measure into law.

Mt. McKenna was born with ahort atumps kriegs and appendage-like piecea of axcess skin for feet that are the familiar trademark of Galldomide bables. The drug, a sedative, is taken of the market in 1962 efter it was shown to be capable of causing severe deformilies in infants whose mother a took it.

Rep. Edward Felghan (D-Ohio), the House sponsor of the bill, and his office was told by ballie Department officials two weeks ago that they were recommending a vato.

Europe May Draw On US Propylene To Meet Shortfall

US exporta of propylene could make up for e shortfell in aupplies of the material in Europe as a result of a switch to llghter feedstocks in European ethylene

"With propyiene prices being up to 0.9 times higher than those for ethylene at the moment, there must be a natural tendency for Western Europe to attract propyiene importa, particularly from the US," Howard Browning of Imperial Chemical Industries PLC told this year's conference of the European Chemical Marketing Research Assoclation in Antwerp, Belgium.

US ethylene crackers are producing 1 miliion to 1.5 miiilon tons extra of propylene annually because by contrast, they are using a higher quantity of heavler feedstocks, mainly because of lower oil prices.

But Mr. Browning, aromatica marketing manager at ICI's petrochemicals and plastics division, thinks that any surge of US imports into Europe will not last for long because the present high price advantage of propylene over ethylene is likely to be short-

The supply/demand picture in recent

Despite doomsayers, there is a turn-

around in US industry competitiveness,

saya Union Carhide chairman Warren M.

In remarks before the Chlcago Eco-nomic Cluh, Mr. Anderson said, "I think

you could go through aimost every one of

our industries, from ahoes, to construction

equipment, to textiles to machine tools.

and find, in the midst of tremendous and

unrelenting competitive pressures com-

panles doing what it takes to become win-

ners again. Paying more attention to quai-

lty, paying more attention to cuatomers,

After the recession of the early 1880's

devastated its major marketa, he noted,

tha chemical industry, including Union

Carhide, emborked on a messive program

of rationalizing and restructuring that has

changed not only the ahape of the industry,

The US plastics industry is now con-

suming organic and inorganic pigments

and dyes totalling nearly 500 million

pounds velued at over \$450 million, ac-

cording to business consulting firm C. H.

Kline & Co., Feirfield, N.J. This market

value is up more than 100 percent from

1977. In fact, this is considerably higher

than was expected at the beginning of

the atudy, according to J. Jeffrey Clencl,

million, is by far tha most popular pigment,

sales. Carbon black accounted for 108 million

pounds in consumption hut only \$35 million in

and Inorganic pigmants were valuad et \$82

million and \$78 million, respectively. Fl-naily, dyes represented a \$20 million market.

Of the organic pigments, diazo condan-sates, phthalocyanina bive, pervienes and quinacridones represented the largest mar-kets, togethar eccepating for 62 percent of the value of this category. In addition, day

light fluorescents, diaryildes, permanent red. 2B, and phthalocyanine green each had mar-

Tha categories of other organic pigmants

Titanium dioxida, at 330 pounda and \$250

senlor consultant at Kilne.

market value.

Whan we turn to innovation, flexibil-

Pigments and Dyes in Plastics

More Than Doubled, Study Finds

paying mora attention to costs."

but its prospects

UCC Chairman Sees Gains

years shows that when propylene prices rise they soon decline as aupplied are increased.

A major factor in the propylene market is that supply is not directly linked to demand because the material is a byproduct of ethylene production and refinery operations. Only when the price is right do some suppliers enter the market.

In mid-1985, when propylene was considered to be in short aupply, the price relative o ethylene rose.

"This attracted a large volume of propyiene, both from the refineries and from imports," Mr. Browning explains. Inevitably a surplus arose, and the price

account the major oli price changes and the relative strength of ethylene at that time." Supplies were reduced, causing propylene

rices to rise once again. "(This) reflects the relative ease with which propylene supply can be encouraged or choked olf by its pricing, whether from refinerles or from imports into Europe," he

"It also reflects the dynamics of a market where the product is not really made for its Continued on Paga 21

ity, technological change for comparative

advantage," Mr. Anderson noted, "we are

challenging our overseas competitors on

that our strength is moving, by means of

technology and innovation, to the next

generation - thanew product that makes

its predecessor not better, but obsolete."

The prospect of a atronger US economy,

he said, is why foreign companies are ac-

tive in this country - building plants,

stepping up investment and acquisitions, and joining in co-ventures with American

"The point is that we do have atreng ths,

that our deciine is not inevitable, but In-

stesd is pointing us in new and promising

directions," Mr. Anderson stated, "Man-

agement is learning that its real role is not

in solving problems, but in creating the kindaof organizations that can solve their

keta of over \$5 million. Of the inorganic pig-ments (not including titsnium dioxide), cad-

miums and chromes together accounted for

42 percent of the total market value.

Chromium titanate, high temperature metal complexes, iron oxida, and molybdata oranga each had markets of over \$5 million.

The plastics colorants business is quite

complex and difficult to track, Klina aavs.

Pigments and dyes are sold to concantrate

formulators, resin suppliers, and plastic fab-

ricators. Formulatad coloranta now secount

for tha majority of the coloranta purchased

by the piestics industry. Pailat concentrates

though liquid colorants, pre-colored realns.

and other dispersions are growing rapidly in

Rationalization during the past decada has

resulted in consolidation and acquisition

among both basic colorant and formulated

colorant soppliers. The industry is now poised for significant growth along with continuing growth in the plastics industry, Kilne says. A continued trend towards the use of

formulated colorants will increase velua-

added and provide more opportunities in the

plastics colorants business, it's predicted.

own problems

our terms, not theirs. We now understand

Senate Shifts Are Expected After Election

Regardless of the outcome of the 1986 elections, aignificant changes are expected to occur in the chairmanships of aeverel Senate committees that are reaponsible for legislation that governs the chemical and pharmaceutical indus-

Should the Republicans maintain their current majority, must of the changes would stem from the retirement of Sen. Barry Goldwater (R-Ariz.), whose departure from the Armed Services Committee will likely result In new leaders at the Judiciary and the Labor & Human Resources committees.

The current Judiciary Committee chairman, Sen. Strom Thurmond (R-S.C.), has indicoliapsed in early 1986, even after taking into vices post. Sen. Thurmond's abdication, plus the retirements of Sens. Charles McC. Mathals (R-Md.) and Paul Laxait (R-Nev.) would clear the Judiciary chalrmanahip for Sen. Orr in Hatch (R-Utah).

Sen. Hatch has not stated his intention, but many Capitoi Hiil observers anticipate such a move. Sen. Robert T. Staffnrd (R-Vt.) is next in line for the Labor & Human Resources chair, but he is expected to opt for his current positinn as chairman of the Environment & Public Works Committee.

Next in line at Labor & Human Resources is Sen. Dan Quayle (R-Ind.), who like Sen. Hatch is a conservative and a strong ally of

However, if the Republicans fall to retain control of the Senate, Sen. Joe Biden (D-Dei.) would take over at Judiciary and Sen. Edward Kennedy (D-Mass.) would become chairman of Labor & Human Resources.

Sen. Kennedy worked with Sen. Hatch to move the drug export amendments through Congress this year after npposing the legislation in previnus years.

The key change at the Judiciary Commit-Continued on Paga 35

Toxic Chemicals Problem in River That Caught Fire

The Nalional Wildlife Federation (NWF) and the Ohio Wildlife Federation (OWF) last week released a comprehensive atudy of water quality in Ohio's Cuyahoga River that found widespread pollution in the river by toxic sub-

The two-year Cuyahoga River Study, cooducted by NWF and OWF, examined the sources and affecta of toxic aubstances in the Cuyahoga River and ita major tributary, Tinkers Creek.

The study finds that toxic matariais in the Cuyahoga seriousiy degrada water quality and limit fish and other aquatic ilfe. Moreover, the study reports that the regulatory programs intended to control the discharge of toxics to the river system are genarally inaffective.

The study makes sweeping recommendations for control of toxic discharges in Ohio and for improving water quality in tha rivar and its tributaries.

In 1869 the Cuyahoga attracted national ing to the report, the kind of pollution that caused the Cuyahoga to catch fire no longer exists, but poliution by toxic substances has become a hazard. Among these toxics are cyanide, benzena, and trichlorethylene.

Other highlights of the report by NWF and OWF are: • Over 700,000 pounds of toxic metals and

90,000 pounds of toxic organic compounds ara discharged into the river and its tributaries each year by the major industrial and municipal wastawater dischargers.

• Major Industrial and municipal discharg

Continued on Page 16

October 27, 1986

popularity.

CHEMICAL MARKETING REPORTER



When it comes to VAM, U.S.I. is known for the customers it keeps.

When you specify VAM vinyl acetate from U.S.I., you know you'll get our highly reactive monomer for quality water-reducible paints, coatings and adhesives.

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The Little Chemical Giant



plant at Deer Park, Tex. The giant will produce nitromothene, altroctione, 1-altropropage and 2-altropropage, representing Graco's tirst step into this specialty area. Expenditures for the nitroparalities tacility represent the company's targest single investment in specialty chemicole.

Specialties No Panacea, Says EniChem Executive

Commodity chemical cumpanies tend to see the complexities as being insurcould be making a mistake by moving into specialties in an effort to get theniselves out of trouble, according to members of the European Chemical ment can be shared. Marketing Research Association meeting in Antwerp, Belgium, that it is a popnlar myth that specialties provide the answers to the problems of the bulk pelrochemical sector

"This is fine for those companies that possess the skills needed to make specialized aiches profitable," he explains.

"Those that do not have the specialty enlare in danger of tollowing the leaders only to Had that they are too late. Their presence alone could spark off the Lamiliar chain reaction - an avercrowded segment, overcapacity and the collapse of margins."

Companies instead should out more for oint ventures and other cooperative projects which means they will not have to withdraw entirely from their traditional lossinesses.

"Actions such as joint ventures, tolling greements and portfolio trading should be the slock in trade of the enterprising chemical industry manager of the 1990's," he says. "The joint venture route has not yet been lully explored — I suspect becamse managers

Joint ventures enable a company to maintain a presence in a sector, while culting Charles Doscher, chief operating officer of EniChem International SA, who told

He cites EniChem's own joint ventures with Hocclist in low-density polyethylene and ICI in polyvinyl chloride.

Under a deal two years ago with Hocelist, EniChem had leased for 10 years an LOPE plant of the German company's subsidiary Rutrehemie at Oberhausen, Germany. Howelist has been adde to get out of LDPE without writing off expensive plant and Enithem has gahed a northern Enropean production facility without having to build additional rapacity.

The initial problem with the agreement with ICI, which only came into operation this mouth after a year's planning, was that with both companies PVC was at the front end of a highly-integrated upstream production sys-

The answer was to leave the assets with the parents while pulling the marketing and R&D in the hands of a joint company — European Vinyls Corporation (EVC).

The European bulk chemical sector still needs to prime a further 10 to 20 percent of

FIFRA Reauthorization Dies in 99th Congress

The effort to substantially uverhand provided for a 15-year smaset, a position re-he Federal pesticitle control law for the factantly supported by the chemical industhe Federal pesticille control law for the first time since 1978 illied in the final hours of the 99th Congress as several senators refused to accept a compromise package of amendments approved

The two chemiters passed separate verslens of legislation to reauthorize and reform the Federal Insecticide, Fungickie & Rodenficide Act, but as the session came to a close on October 18, the House and Senate were sill at odds over provisions dealing with many major issues, including patent term lesionation, dato compensation, liobility,

The National Agricultural Chemicals Assertation said it found the final House offer acceptable, including a limit on the long-isought patent extension provision, but Sens. loward Metzenbaum (D-Ohio) Dave Durenberger (R-Minn.) ond John Melcher (D-Mont.) all placed "holds" on the measure, in ellect killing the legislation.

Under the Senate bill, the patent extension revisions would have expired after severn Years. Instead of this seven-year sunset, the se compromise amendment would have

But Sen. Melzenhamm, the author of the seven-year souset provision in the Senale bill, refused to budge. When n member of the House Agriculture Committee approched the Senotor un the issue, "Metzenbaum said he wanted seven years and would not accept seven years and one day," reports an industry

Sen. Durenberger said he was not sutisfied with House provisions on groundwater, Ilability and uniform lolerances, and wos prepared to offer counter proposals that probsbly would have been rejected by the House.

Seu. Melcher objected to the House's decision to delete an amendment he added to the Senate bill capping the amount of compensation that must be pald when a pesticide producer uses another company's research data to register a pesticide.

As a result, there would have been no limit on dota compensation levels set by arbitration - the position preferred by large chemical companies who research and develop new

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Ozone Shield 'Hole' Puzzies Researchers

ozone radiation shield above the South Pole is not due to sunspots or wind currents, but the theory that it is caused by man-made chemical pollulants may be ncorrect, also.

The Antarelle discoveries, confirmed earier this year, have set off a flurry of scientific and governmental activity because ezone is nevessary to support life, and the hole" was the first concrete evidence of damage to the ozone layer despite more than a decade of warnings from some scientists.

The sharp drop in ozone levels appears to oe occurring over the North Pole as well another study has shown.

Susan Solomon, a National Oceanic & Almospheric Administration chemist and leader of the US expedition, said the prelimimary findings from studies expected to contime into November are consistent with the theory that eldorine from chlorofluoraenrbons might be destroying the vital exone molecules every Spring.

But she said the usam has loca mobile to confirm the theory, in part because their expertments did not timb chlorine in the amounts scientists believe is required to de-

The scientists, reporting via satellite from the US base at McMurdo Station, Autoretica

A US research team says it appears to a National Science Foundation news conthat a puzzling "hole" in the atmospheric ference in Washington, said ozone levels decreased atont 40 percent during October.



Raymond F. Beotole, president and chief execu-tive officer of Mallinckrodi Inc., who has been elected a senior vice-president of international Minerals & Chemical Corporation, new Mallinck-

Methanol From Coal: Auto Eillis Panned

Looking toward next year's congres- point in the direction of clean-burning sional session, Sen. Jay Rockefeller (D- acthanol. W. Va.), says he will reinfroduce legislation nimed at encouraging US automobile manufacturers to ilevelop cars capable of running on coal-based

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"We need an all-out push to perfect a trans-portation fuel that takes advantage of this

It's unfortunate that we weren't able to pass a methanol hill during this Congress, but we've laid the groundwork for quick action next year, Sen. Rackefeller says.

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"Without any cost to the government, my bill seeks to break the so-called chicken and -egg' problem that's plagued the development of methanol," says Sen. Rockefeller.

He notes that auto companies currently ecunitry's plentiful supplies of coal. Amer- will not build cars cabalite of running on ica's declining domestic supply of oil and our methanol because the fuel is not available at growing concerns about gasoline-polluted air neighborhood service stations

Conrail Stock Offering Welcomed by Industry

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of a \$12 billion deficit reduction package price. passed by Congress shortly before adjourn-

Chemical Manufacturers Association opposed the Reagan Administration's original plan to merga Conrall with Norfolk Southern, another major Eastern freight carrier.

would reduce competition in the South, East and upper Midwest to an unacceptable level, and urged Congress to preserve Conrall's in-

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last week sending Conrail back to the said in a letter to Congress last December.

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When it comes to VAM, U.S.I. is known for the customers it keeps.

When you specify VAM vinyl acetate from U.S.I., you know you'll get our highly reactive monomer for quality water-reducible paints, coatings and adhesives.

What you may not know is all the extras you'll get with it in the form of down-to-earth, personalized service.

We're small enough to react quickly when you need it. And we're big enough (with 600

million pounds of capacity) to assure your supply of VAM.

We also supply you with a tollfree hot line to our computerized order processing system that tells you in seconds where your rail shipment is, and when you can

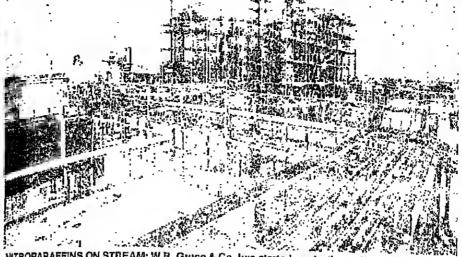
Personalized service, plus a product you can feel sure about Both good reasons to call on The Little Chemical Giant® for

your vinyl acetate needs. Contact U.S.I. Chemicals Co., Depl. 4564, Div. of National Dis-

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The Little Chemical Glan



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Methanol From Coal: Auto Bill Is Manned

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chemicals to just about every industry in North America. Thousands of organics, inorganics. acids, solvents, surfactants, specialties and blends, from most leading producers. Available locally, fast, in quantities you need. Backed by safety programs, technical service and a nationWe're the number one chemical distributor.

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News Capsule

Dexter Buys RPI

Dexter Corporation has completed the acquisition of Research Polymers Interatlonel Corporation of Grand Prairie, Tex., for nu undisciosed amount of cash. RPI produces thermoplastic potyolefin compounds, with annual sales expected to reach approximately \$35 inition this year. RPI will continue to operate under current management as a division of 1 lexer's specialty materials group.

Sterling Sells Unit

Sterling Drug Inc. says it has reached greement to sell substantially at the assets of its Hilton-Duvis Chemical Company subsidiary to H.D. Acquisition Corpany sustainty to 11.5. Acquisition cor-poration, a newly-formed corporation owned by Phillip E. Komins, who has inter-ests in plastics, chemicals and machinery.

Du Pont Plans Facility

Du Pont Tau Laboratories, a manufacturer of photomask products used to make integrated circuita, is huilding a new photomask manufacturing plant near Austin, Tex., to meet domand from the somiconductor industry in the Southwest. The 30,000-square-foot lacitity is expected to be in operation in mid-1987.

Air Products Sets Date

Air Products & Chemicals Inc. says to will begin production of high-density olycihylene "Airopak" barrier containers at a new facility in York, Pa., by January 1987. The company will market the ntainers to producers, packagers and istributors of paint-related solvents, peslicides, cleaning compounds, auto addi-lives and other petroleum or hydrocaron-based products to the Northeast.

Airco Builds Plant

Alreo Industrial Gases is huilding a new Months of the Market of the Ma slated for starting in May 1987. Liquid roduct produced at the new sile will be old in the Northeastern US permarily for lood freezing/chilling, heverage enrhoua-lion, and a variety of industrial applica-

IDC Opens Laboratory

International Dyestuffs Corporation 5 opened a new warehouse and cus-mer service laboratory in Johnstown, Y, to service the company's dyestuffs ad pigment markets in the Northeast. DC supplies colorants to the textile, pa-per, leather, lnk and plastics tudustries.

First Miss. Unit Expands

Quality Chemicals Inc., a whotly-owned subsidiary of First Mississippt Curporn-tion plans to double its current plant cu-pacity k. pacity by the end of next year. Quality Chemicals is a custom manufacturer of pharmsceuticals and fine organic chemi-

Celanese Methanol Moves

Celanese Canada, inc., and Alberta Gas Chemicals, Ltd., completed the first-ever shipment of inclining by pipeline tast week from Alberta to Eastern Canada. The maiheral transfer of the control of the control of the control of the control of the canada. the meihanol was shipped through the Cochin Pipellne System, which is operated by Dome Peiroleum, Ltd., through its altillate Cochin Pipellne. altillate Cocluin Pipe Line, Ltd., on behalf of Dow Pipeline, Ltd., AG Pipelines Ltd. Petro Canada, Inc., and shell Canada Resourcea, Lid.

larner-Lambert Sues

Warner-Lambert Company, Morris Jains, N.J., has filed ault in US District Couri for the Northern District of Illinois againsi My-K Laboratories, Inc., Skokie in charging unfair competition by allegedly imitating the trade appearance of Warner-Lambert's "Benyiin" cough syup, My-K Laboratories formerly operated under the same Part Cabandaries ated under the name Bay Laboratories



tive vice-presidant of Warner-Lembert Company. He was proviously senior vice-president and chief financial officer.

Norsk Hydro To Go Ahead On Wagnesium

Norsk Hydro formally amounced its decision last week to build a \$250 million (US funds) magnesium plant in Quelec, Canada, "I am pleased to announce that Norsk Hydro has made the final decision to build a magnesium plant in Canada,' sald Mr. Torvild Ankvang, president of the Norwegian company, the largest in Norway, al a press ennference in Mont-

The project had previously been recommended by the company's board of directors, and has now been fluidly approved by the

Norsk Hydro corporate assembly.
The plant will be built in the Beenneour Waterfront Industrial Park on the St. Lawrence River. Construction is scheduled In hegin in the spring of 1987, and will be campleted in the first mouths of 1989. The plant will operate with Canadian management and staff.

The Beramour plant will have an annual Continued on Page 28

USX Studies Restructuring; Icahn Bid Expires

The \$31-per-share bid by Carl Icahn for USX Corporation (formerly United States Steel Curporation) expired last Thursday without any word from the New York financier and corporate raider about his further Intentions.

Officials of USX had met with Mr. Icahn during the week. Neither party divulged anything about these conversations, but Mr. Icahn earlier had stated that if what he termed his friendly offer for the diversified steel, chemicals and petroleum company was not accepted, he would consider launching a tender offer to the company's slockholders.

Mr. Icahn left the door open for a friendly settlement by indicating that if USX were restructured in a way adequately beneficial io slockholders, he would drop bis attempt to

ar uire the company. Two weeks ago USX took its first big itstructuring step by arranging the spin-off of its chemicals division by transferring its assets to a new company called Aristech Corporation, which eventually will be held entirely by the public. Aristech will initially purchase 32 percent of its shares from USX, but these will be retired.

DuPont, Allied-Signal Record Higher Income

nies, the strongest carnings increases 73 percent from \$95 million a year ago. last week were reported by Allied-Signal, Inc., E.I. duPout de Nemours & Co., Cclanese Corporation and American Cyanamid Company, Others reporting increases included Pennivalt Corporation, GAF Corporation and Wilco Corpo-

DuPont's fuird-quarter net income of \$343 million was 25 percent higher than a year ago und was achieved despite the adverse effect of lower petroleum prices on Conoco incorporated. Most of Du Pont's chemical and spechilty products husinesses posted strong results, reflecting an improved cost structure and strength overseas, sintes Richard W. Heckert, chairman. After-tax operating income in chemicals and specialty products wits up 65 percent from a year ago, Mr. Heck-

Earnings of Celanese in the third period amounted to \$50 million, an increase of 17 percent from a year ngo, as chemicals, libers and specialties all made significant contributions, according in John D. Macomber, chairman and chief executive officer, who also cited ongoing strength in worldwide sales of engineering resins.

Allied-Signal registered record third-quar

Among the major chemical compa- ter net income of \$164 million, an increase of

Edward L. Hennessy, Jr., chairman and CEO, said that income for the company's three operating segments more than doubled from \$70 million to \$153 million, primarily as a result of improved acrospace sales and higher carnings for the automotive aftermarket and fibers businesses.

American Cyanamid's earnings from contiming operations and net earnings in the third quarter were \$44.8 million, up 29 percent from \$34.8 million a year ago. George J. Sella, Jr., chairman mid CEO, said that the medical business profited from strong sales growth of pharmacenticals in the US and in international markets.

Worldwide sales of Cyanamid's agricultural products were about even in the third quarter compared with a year ago despite the company's withdrawal from the diammonium phosphate husiness on Jane 30, Mr Sella notes. He eites a better performance of animal and pesticide products.

Most notable of all was the improvement in Pennwalt's results, as the company recorded carnings of \$13.9 million versus a

loss of \$37.8 million to the 1985 period. Excluding the negative effect in 1985 of restructuring charges, operating earnings

Continued on Page 26

Petro-Lewis Bailed Out

FPCO Jacorporated, New Orleans, La., a company formed at the direction of Freeport-McMoRan, Inc., has signed a definitive agreement to parthripate in a plan of reorganization for Petro-Lanvis, Inc. as part of Prequort-McMoRan's etfort to acquire Petro-Lewis.

Petro-Lewis is a limited oil and gas partnership that has been facing bankrupicy heranse of the decline in oil prices. Preciort-McMoltan has a tender offer outstanding for Petro-Lewis, but the offer has fallen short of the majority sought because certain holders of Petro-Lewis honds have declined to tenier their securities. Participation in the Petro-Lewis reorganization is expected to offer inducements for these holdouts to tender (heir securities.

FPCO said that it has accepted for payment all untis of heaelletal laterst in American Roynity Trust, a Petro-Lewis uffiliate, lendered to date, and that it has extended through last Friday, October 24,

FPCO also has purebased the Petra-Lewis subsidiaries that mannge American Royalty Trust and own the properties of the oil and gas interests held by the

FPCO also annuanced that becouse the minimum jeuder condition in its offer for Petro-Lewis debt securities has not been satisfied, PPCO is not purchasing Petro-Leavis debt or equity securities at this

FPCO is urging bond holders to tender and said it hopes that enough bonds are lendered so that it will be economically attractive for FPCO to close on the occursition, allowing Petro-Lewis "to avoid the

costly ordeal of bankruptcy."

Accordingly, FPCO extended until 5:00 p.m. last Friday its each tender offer for all ouistanding debt and equity sccurities ol Petro-Lewis, and also extended withdrawal rights with respect 1a the offers

NL Industries Turns Down Bid for Chemical Operation

NL Industries, Inc., New York-based producer of specialty chemicals and coatings materials and provider of petroleum equipment and services, last weck rejected a proposed leveraged buyout of its chemicals operation for about

Instead, the company disclosed it was exploring a plan whereby its petroleum services and chemicals units would be spun off separately to holders of different classes of the company's stock.

NL said that the proposed buyout by an unidentified financial institution called payment of \$13.25 a share in cash and \$2 a amount that would equal somewhat over \$915 million for the unit's 60 million Series C

its chemical operations by early 1987, several months earlier than it would have been accomplished through a previously announced proposal.

preferred stockbolders owning NL's busineas at this time."

petroleum service operations and the holders of NL's Series C preferred stock owning the chemical business,
It is intended, NL saya, that after the aepa-

ration, the shares of both companies would be publicly traded. Completion of the transacllon would require, among other things, the processing of fitings with Securities & Exchange Commission, approval of a majority of the directors of NL Industries not affilialed with Amaigamated Sugar Company, acting upon the advice of an independent investment banker selected by them, and the approval of NL Industries' common and prelerred stockholders.

Dallas, Tex., investor Harold who controls 5 of NL's 9 board seals, would share to 11.5 percent preferred stock, an also receive 5 of NL Chemicala' 9 acata after the spin-off. He is a principal ia Amalgamated Sugar.

Mr. Simmons' 5 seals on the board voted The plan NL is exploring would result in against the proposed buyout by a large finanthe segration of its petroleum services and cial institution in a vote that was 6 to 2 with one director not participating.

In voting against the institution's proposal. Mr. Simmons said that he desired that "there be an opportunity for NL Chemicals to The proposed separation would result in demonstrate its value as an independent oresent NL Industries common and Series A company rather than selling the chemicals

October 27, 1986

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OILS, FATS & WAXES

Palm Oil Hits Eight-Month High: US Buyers Switching to Soy Oil

ciably, hitting levels that have not been seen sloce last February. Palm pricing s joining coconut and soybean oil pricing to the strengthening that has been laking place throughout the world oils market for the past several weeks.

"The coconut oil market has been very strong, which nobody really expected," says atrader, who notes that palm is now following coconut oil'a lead. That belief mirrors those of most of the traders in the market

Another aurprise is lower-than-expected production of palm oil in Malayala for the months of September and October, Estimates place production for each of those months at approximately 50,000 tons less than last year's figures for the same mooths.

Although there are no shortages, the glut situation that has dampened prices for much of the year is oot now as severe as people thought it would be. Production levels for the rest of the year are also expected to be below

Demand for palm oil in the US is falling noticeably because of these high prices, sources say. Both spot and forward markets here are described as quiet, with many con-sumeraturning their atlention to US acybean

US TRADING PALM FOR SOY

Sources believe that many US oil consumers are trading their paim for soy oil. Consumers are said to be selling their forvardpositions on palm oil, bought at the very low prices of several months ago, and taking their prolit in today's strong market. Subsequently they are satisfying their oil needs with soybean oil, sources say.

The relative apathy of the US market to palm oll has not been found throughout the world market. Iodia bought heavily in the last two weeks, helplog to keep the strong market buoyant. Many traders consider it a healthy sign for the market that India chose to buy in the midst of firm pricing and upeard movement. This indicates that palm is not just experiencing a brief rally which orld consumers are expecting to end soon,

Malaysia is apparently "comfortable go-ing with the market flow" to higher prices, says a trader. He points out that, while the Malaysians cannot be pleosed with a slowdown in US buying, they have developed older marke is to the point that they need not caler to the needs of the US market. Some of

FRIDAY SPOT PRICES

ARKET CLOSE OCT. 24, 1986

RUDE VEGETABLE OILS

Cottonseed of, Valley b. Lissed of, Manaspoll s b. Parm oil, NY b. Parm oil, Southeast (restricted) b. Soybean oil, Decetur b.	.25 .18	
REFD. YEGETABLE OILS Coconut off, Lw., NY Ib. Corn, lembo tanks Ib. Person off, Lumbo tanks, NY Ib.	.28	

DILMEALS

ATS & GREASES

*, White, choice, tanke, divd., NY... lb. .10%
e, yellow maximum 10%, fire tenke... ib. .9
loose, bulk tenke, divd., Chicago ... ib. .17
e, Inedible, fency, tenke, divd., NY... ib. .12%
w, medible, bloh, tenke, divd., NY... ib. .12.

and the USSR, the trader says.

Adding to the Malayalans' comfort with raising its pricing is the easing of the glut situation. Lower production for this month and last month is attributed to several factors, most nots bly the reduction of efforts by farmera to produce a humper crop of a very

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

Coconul oil, NY, 2% per ib.
Cottonsed, 41% bulk, Memphis, 35 per ton
Cottonseed oil, Velley, Vsc. per ib.
Gresse, white, choice, tanks, divd., NY, Vsc. Paim off, NV, 11/20. per ib. loybeen, 44% bulk, Oecetus, \$5 per ton Tallow, inadible, lancy gues, tanks, divd, NY, 1

CHANGES/DOWN

Com oil, Midwest, Vo. per ib. Lerd, locae, bulk lanks, Chicago divd., Vac. per lb

OILS, FATS INDEX

The Olia. Fats & Waxes Index reflacts thaprices of 11 representativa materials n this sector and the quantity of each produced in 1985. Oct. 24, 1986 80.49

Oct. 17, 1988 78.46 Sept. 28, 1988 81.58 Oct. 25, 1985 . B3.05

Chemical Prices Start on Page 40

low priced product. Their investment in tertillizer, for instance is widely thought to be less this year than last. Other factors include tree stress, or "tired trees," resulting from heavy yields lost year, and lower than usual rainfail in Malaysia during this year.

VEGETABLE OILS

LINSEED OIL - The linseed oil market has been resisting the downward prassure normally ossociated with the harvest. This is explained mainly as the result of uneven harvesting activity, delayed and interrupted by rain throughout the month of September.

"Typicolly, we've had a major part of the harvast done by now," saya an industry source, "but this year the harvest has been strung out from the end of August until now."
The result, ha says, is that refiners have been fed a slow, constant supply of oli, preventing the soitening effect on the market of a sudden flood of material.

PALM KERNEL Oll. — The price of this oti has good up substantially, to currently quoted levels of 18%c. to 19%c. per pound in bulk quantitles, c.l.f. basis, at US ports. US and European dealers are trading the material, but US consumer loterest la "almost dead," saya a trader. "The market is overpriced," says another, who expects it to come down from these levels.

SOYBEAN OIL - The price of soybeac oil remains strong, despite a relative lack of consumer interest in the US, sources say. The price is maintaining its firm standing largely because of the support falt in the markets for all of the major olls.

Soybeans are enjoying good export demand at the Gulf, according to an industry source, who says that domestic bean demand is also high, fueled by a good crush rate. The combination of hean demand and a firm world oils market is expected to keep soy oil. pricing at its current level for the foresec-

TUNG OIL — The price of this oil is quoted Continued on Page 13

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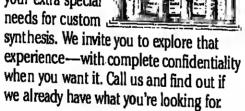
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OILS, FATS & WAXES

Continued from Page 11 between 31c. and 33c. per pound in tanks, imported into New York. The market has been fairly quiet, sources aay, with ample

supplies beloing to keep the price down.

"We were told that once the price came downandstayed downfor a while, tung would recover its market. We're still waiting for people to come back to it, but the signs aren't ibere right now," a source says. Buying is said to be largely hand to mouth, with consumers taking "only what they absolutely need," according to an industry source.

FATS & GREASES

TALLOW - This market has been sirengtheolng lately, marked by a resur-gence of domestic consumer demand. A numer of US exporters have been in the market to cover sales made one to two months ago,

Apparently, the current ease in production caught some exporters off guard, who had made earlier sales based on higher production expectations. Consequently, they have had to buy fairly heavily to meet those commitments, according to an industry source. Strong domestic buying at the levels brought up by the exportera is the source of the curreot market strangth, sources say.

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CARNAUBA - The price of number one ellow Parnabyba is quoted between \$1.95 and \$2.05 per pound, and yellow number one Ceara is quoted between \$1.75 and \$1.90 per

pound, both in baga, in too lots.

Refined North Country number two wax is quoted between \$1.55 and \$1.65, and North Country number three, centrifuged, is quoted at \$1.10 per pound, both in bags, in ton lots.

The market has been very stable, sources say, with buying taking place at normal or slightly below normal volume. Readily available supplies of carnauba are expected to keep the pricing from rising above current levels for at least the next several weeks.

MISCELLANEOUS

METHYL ESTERS — Henkel Corpora-So has announced that it is raising the price of its 12-18 grade methyl esters. The price

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will be increased from 25c. to 33c. per pound in tanktruck quantities, effective November

Thermoplastic Line Introduced by BASF

BASF Corporation has formed a thermo-plastic polyurethane elastomer business speclalizing in the market development and sales of the company's TPU "Elastollan" for the injection molding, blow molding, and ex-trusion industries in the US.

According to Manfred Buller, the com-

pany's group vice-president for polymers, the formation of this new business unit "reflecta BASF'a continuing commitment to US markets." BASF bas sold "Elastollan" in European and other markets for more than 20 years, he adds.

"BASF is offering its Elaatollan "products In the US as a consequence of ateadly grow-ing demand for TPU in blow molding, injection molding, and extrusion markets world-wide," Mr. Buller asys.

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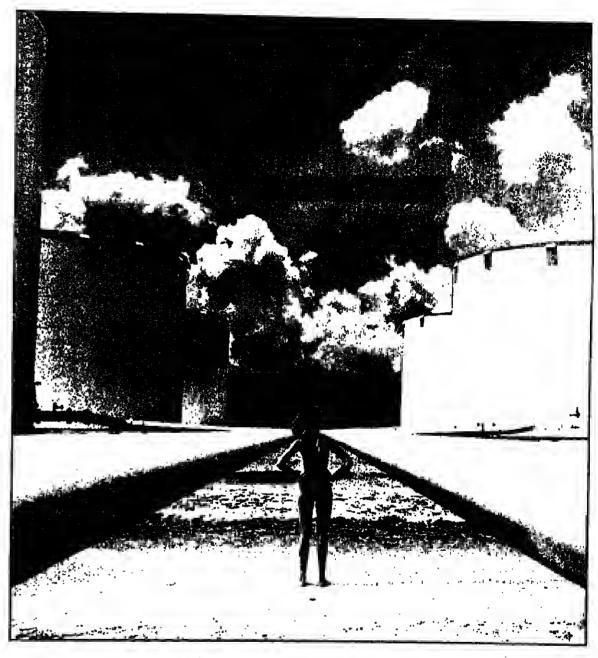
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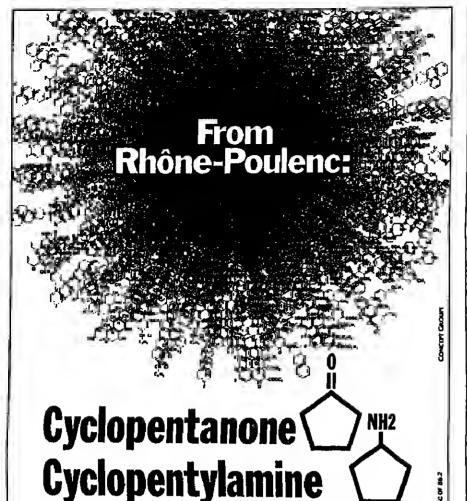


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AROMATIC ORGANICS

Phthalic Advance Holds Firm On Reports of 'Snug' Market

the October 1 industry-wide price in- ported by overseas production disruptions crease has been successful. Higher feed-stock costs, supply diaruptions, and

"The price is holding firm" at the 1 cent per pound higher level, says one producer. and another commenta that 'Ilils is the most auccessful increasa in aome time."

"Phthalic anhydride has passed the tight atste," asserts the latter source, as only two of the alx production facilities in the country have not experienced aome production curtallment over the past several weeks.

"The market lavery anug," agrees another producer. "We've been totally sold out, and I believe (one or two other producers) are In the same boat." Among the producera, it is reported that Exxon Chemical Americas and Sterling Chemicala bave curtalled production this month due to catalyat changes, and that Koppers company experienced five days of downtime last month due to a mechanical

Most aerioualy, Stepan Company has only recently resumed normal production at its 170-million-pound-per-year Millsdale, Ill. site. Production was hampered for over two months by a blower problem that necessitated equipment replacement. "We were barely running" until the problem was aolved, aaya a company apokeaman.

SUPPLIES ALLOCATED

It is sald that Exxon is limiting the amount of material Its customers can buy because of the low supply availability. One producer saya that Exxon was prompted by the market's tightness to obtain a 1-cent-per-pound increase October 1 (on top of the industry- Intrinsic value in the marketplace, "one prewide move) in the company's contract price spread over feedstock orthoxylene costs.

It is believed that Exxon, for the most part, is the only phthalic anhydride producer with contract pricing tied to a definite apreadover

Second of the most part, cally, and a sharp increase recently inexpel contract pricing tied to a definite apreadover

5.164 million pounds of material were at the contract pricing tied to a definite apreadover orthoxylene. Exxon's move this month is axid ported during the month of August, to be related to last quarter's Industry-wide price move in which, at a time when orthoxy-seven months of the year through July, & ene prices were stable, Exxon did not partic-

This month's iodustry-wlde 1-cent-perpound iocrease has not met with the controversy of the third quarter mova in part because feedstock costs have risen in recent months. Producers say that, essentially, they the US dollar have enabled suppliers here have passed through bigher orthoxylene

Orthoxylene pricing, over the course of the third quarter, firmed from a 12% cent to 13-cent per-pound level to a range between the course of the from Chicago to Talwan have been available from Chicago to Talwan love been available from Chi 131/2 cents and 131/4 centa per pound.

icludes pitch of coaltar, blest furnece, tar oil, etc.

AROMATIC ORGANIC IMPORTS: AUGUST

173,842 13,786,023 1,258,808 385,720 18,208,433 4,874

275,872 588,587 1,482,587 788,621 808 928,125 83,074 24,307,923 1,062,943 8,630,836 1,512,943 2,256,036 2,000

CENSUS BUREAU REPORTS ON THE TOP 24 AROMATICS.

Phlhalic anhydride producers say that higher orthoxylene costs have heen supplant went down," says a source. In addition stock costs, supply discontinuous plant went down, strong export demand are said to have it is reported that a production problem in Mexico has compelled that country to import

> Nonetheless, producers stress that they do not view movement in phthalle pricing a necessarily reflecting the feedstock plains Supply-demand considerations are

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

AROMATICS INDEX

The Aromatic Organics Index reflects the prices of 14 represantative materials in this sactor and the quantity of each producad in 1985.

0-4 04 4000	407
Oct. 24, 1986	
Oct. 17, 1986	167
Sept. 26, 1986	
Oct. 25, 1985	
Oct. 40, 1000 11111111111111111	

Chemical Prices Start on Page 40

paramount in pricing matters, says one pr ducer, and others say they like to believe but orthoxylene-tied contract formulas are & their way out. "Phthalic ought to have some

Producers report steady business domesti sharply from previous months. For the first entire amount exported was only 3.680 ml llon pounds

Producers report heavy exports from the West Coaat to Far East destinations such a Talwon and Mainland China. Producers St that low freight rates and the weakening meet demand from o Far East that is "heller ng for plithnlie.

Phtballe anhydride producers say that for severol months because of the "iremer dous glut of empty containers" in the first

108,188 248,488 556,701 860,890 8,214 188,852 82,807 3,373,308 14,324,924 1,990,080 4,384,113 1,841,085 3,088,947 4,863

114,840 411,168 1,255,040 496,968 532,773 1,063,446 2,58,564 21,906,479 18,284,070 433,104 9,240,121 2,417,949 5,868,661 11,023

497,484 383,107 210,265 200,100 2,831,862 487,862 6,909,105 7,709,195

AROMATICS

em US as a consequence of heavy US imports of Far Easlern goods.
The weakening of the US dollar in relation

to Far Eastern currencies has been a more receot phenomenon that has provided the impelus for the US export surge, producera aay. They expect export levels to continue to run very high for the balance of the year, and

believe the total for the year could well dou-ble last year's 13.0 million pounds.

8TX — Spot benzene pricing held fairly sleady last week between 83c. and 84c. per gallon. Sources expressed uncertainty over the likely path pricing will take in the coming

There appear to be several factora supporting firm pricing, including Organization of Petroleum Exporting Countries' (OPEC) agreement to extend production controls, healthy demand for styrene, and high benzene running rates that have resulted in the postponement of turnarounds.

However, as one source says, the direction of the market often runs counter to conven

There was only one bearish factor the last day or two, high crude oll inventories, sald a trader early last week, but this appeared able io ollset a number of bulllab factors.

Another trader poiots out that many benzene huyers loaded up prior to the industrywide move to 85c. per gallon in mid-September, and then held off buying for quite a while.

"People felt that, with the uncertainty of OPEC, time was oo the side of the buyer." he says. This prognosis has not held up, and pricing haaheldsleady.

Spot foluene is quoted at 67c. per gallon, a price equal to the previous week's level. A source observes that octane demand in the US has heeofalrly healthy, but that there has been a luli in Europeao de mand. Spot xylene is quoted between 76c. and 77c. per gallon.

PlienoL — The 2c. per-pound October 1 pace initiative did not succeed, and temporary allowances were instituted.

However, "operating rates are very high, and raw material pricing has been firm," says a producer, in justifying the need for a

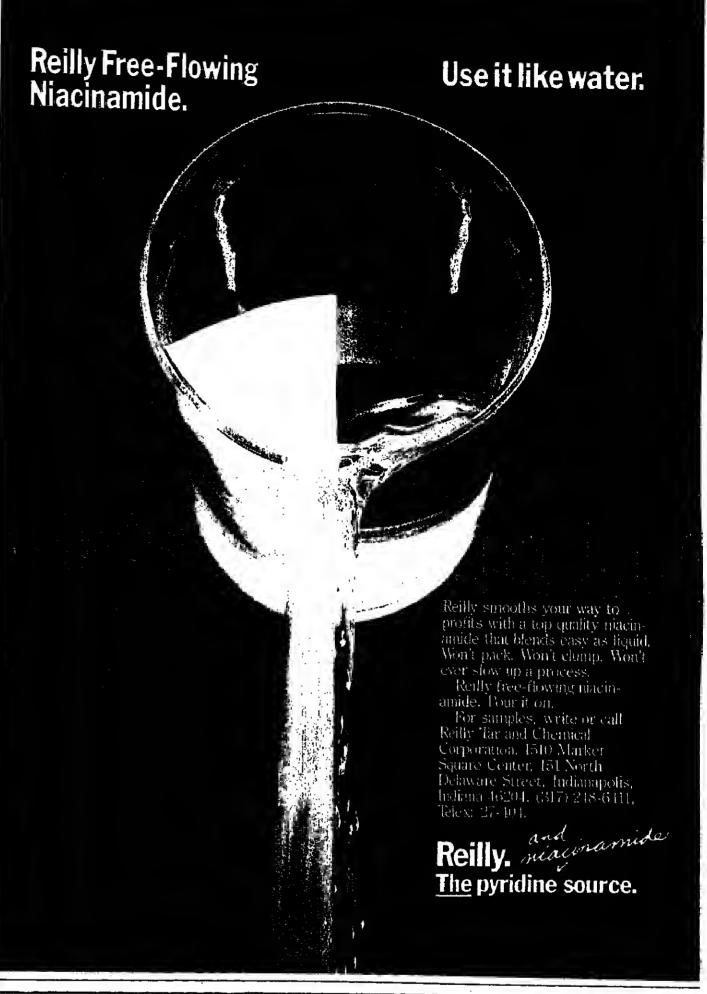
STYRENE - The extent of the industry's price increase for November 1 is unsctiled at this time. Chevron Corporation and Cosden Chemical announced price Increases the previous week to 27c. per pound. It is belleved that one other producer also raised its price around the same time.

Last week, Borg-Warner Corporation reconfirmed that its price is 27c. per pound less a 3c. per pound temporary voluntary al-

The company says that it aims to "establish a minimum selling price of 24c. per

Dow Chemical USA confirmed to its customers that the company's list price is 26c.

Huntsman Chemical Corporation aaya it has not changed its list price from the level of 25c. per pound less a 3c. per pound TVA. Sterling Chemicals reconfirmed to its customers a list price of 26c. per pound. These prices all became effective October 1.



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October 27, 1988

CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

CHLOROBENZENES

, 2, 3, Trichlorobenzene

MONOCHLOROBENZENE ORTHODICHLOROBENZENE (HIGH PURITY AND TECHNICAL GRADES) 1.2.4 TRICHLOROBENZENE (PURE AND ELECTRICAL GRADES)

TETRACHLOROBENZENES MURIATIC ACID 20° & 22° Be PARADICHLOROBENZENE

Standard Chlorine Chemical Co., Inc.

Toxic Chemicals Problem continued from Page 5

ers at the citles of Akron and Cleveland are largely responsible for the discharge of toxic cluding concentration and load limitations.

materials that degrade water quality and limit hiots in the Cuyahoga River system.

• The regulatory programs that are intended to control the discharge of toxic pollutants to the river system, including the National Reli tional Pollutant Discharge Elimination System (NPDES), are generally ineffective In the system and are poorly enforced.

 NPDES permits of many point source dischargers have heen expired for several years; discharge limits for toxic materials in effective permits are practically nonexisent; and, where toxic discharge limits do exist, they are frequently violated.

Based on their study, NWF and OWF recommend that the Ohio EPA aggressively implemant and enforca the Clean Water Act in Ohio. Specific recommendations includa: • Immediate relsauance of alt expired NPDES permits to industrial and municipal

• Issuance of NPDES permits that regu-

 Scheduling of permit reissuance hased discrete stream, river, or watershed see ments ao that ail permits for dischargersing

a given segment expire at the same time
• Requiring industries and publicly owned treatment works with the potential for dicharging toxic materials to perform whole effluent toxicity testing following melhods developed by EPA.

· Implementation of an enforcement aregram to ensure that expired permits are revised, that the discharge limits in new permlta are atrictly followed, and that all toxicity in discharges ia regulated.

nation of the discharge of toxic materials from point sources in the Cuyahogs River basin, as well as assessment and ulilmate elimination of the discharge of toxic materals from nonpoint sources, will result in lonproved water quality in tha Cuyahogs River

At our Pampa, Texas plant, product quality is more than the concern of a single department. It's a deep scated commitment to "do it right the first time." That same commitment is echoed throughout the Celanese Chemical Company

Our loading and lab people recently initiated the idea of a quality feedback survey. A postage paid reply card with the picture of the analyst or loader is attached to each shipment and to each certificate of analysis. This is done to demonstrate the personal responsibility for quality.

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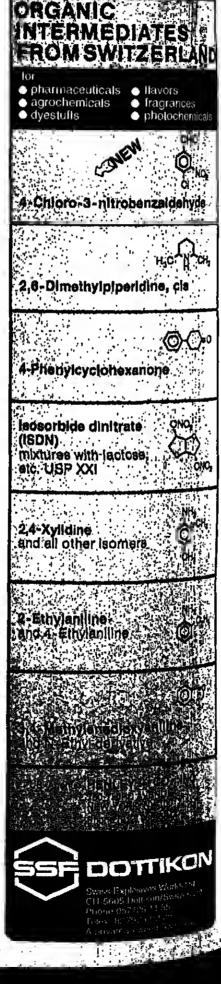
very high response rate. All seem to be pleased that Celanese has provided this opportunity for customer feedback

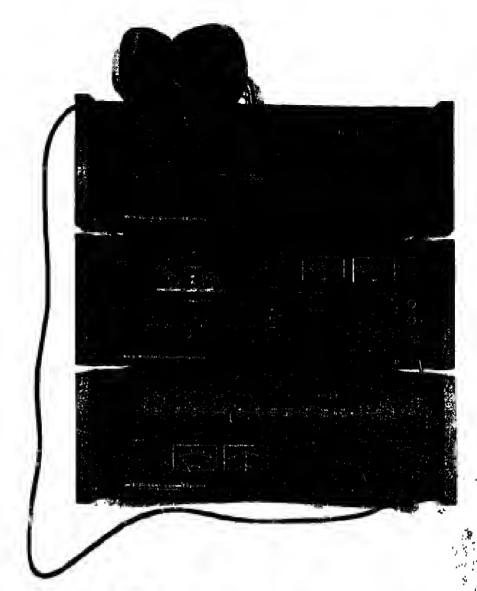
The feedback process creates two-way communications, which in turn leads to greater customer satisfaction. That's Celanese quality, Inside and out. When quality matters, consider Celanese first. With us, It's a maiter of personal pride.

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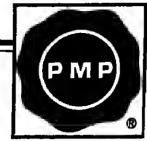
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Acrylonitrile: Fiber

Bureau, the statistical arm of the Man-Made Fiber Producers Association.

But while the US acryllc fiber industry is booming at home, the overseae market is plagued by oversupply and price erosions. These conditions have played an important factor in poor export pricee for US acrylonitrile. Acrylonitrile export prices have also been aeriously damaged by oversupply in the acrylo market, and by tumbling raw moterial propylene prices.

Ironically, the strong US market for acrylic fibers has contributed to the weak pricing situation in the overeeas market. The 18 percent gain in domestic shipments so far this year, coupled with domestic cutbacks in acrylic fiber capacity, have kept US fiber producers virtually out of the export market. US fiber producera shipped 148 million pounds of acryllc overseas in the first nine months of 1985. By comparison, US fiber exports so far this year have totalled only 85 million pounds. One source says "there has been intense price competitioo" by foreign scrylic makers to flil the vold left by the US producers. This in turn bas helped drive down the International price of acrylonitrile.

US acrylonitrile export volumes have remained high this year, but prices have steadily fallen. A large portion of the decline has been attributed to falling raw material propylene costs, but exporters also blame terrible fiber prices and excess supplies of acrylo, especially in Europe. At the beginning of 1988, US acrylo producers were exporting material for over \$700 per metric ton, but that price has now fallen to \$500 per ton, C&F to the Far East following a \$20 price silde from the third to fourth quarters, according to one producer.

SPOT PRICES DRIFT LOWER

In the European market, spot prices have drifted even lower. A large influx of Eastern Bloc material, one producer explains, has helped pushed the European spot price down to \$480 per metricton, C&F. At this price, the US producer says American acylonitrile manufacturers are staying out of the European market. European overaupply is also attributed to the recent start-up of ao acrylo plant in Turkey, and the return of Enichem's

Another source of weak acrylo export prices has been domestic tollers of acrylonitrile. One producer explains that earlier this year Monsanto, and later Sterling Chemical, were converting propylene and ammonia at Texas City for tradere and other customers for a fee. The people tolling the acrylonitrile then sold the material in the export market, often at extremely low prices. Though the practice is profitable to the Texas City owners, it also contributed to the general decline in acrylo export values. A Monsanto offical estimatee that up to 40 million pounds of acrylonitrila per quarter bava been tolled at Texas City. He also estimates that these traders were aelling product for up to \$60 per metric ton below traditional scrylo makers'

The weak acrylo prices have been very diecouraging to US producers. They bave been operating at high rates all year, and prices continue to silde. One company, American Cyanamid, eays that because pricing on the export market is so weak, the company is pushing forward some plaoned maintenance work from early next year to next month, and will take a portion of its capacity out of production. Market tightness was also aided by xtended turnaround taken by Standard Oli Chemical Co. in August and Saptember.

Now, acrylonitrile producars are faced with rising propylene prices both here and in Europe. Propylene sellers bave pushed for October prices iocreasea of up to 2 cents per pouod over the current 9.5-cent levels. The acrylo makere eay the downward pressure on prices applied by acrylic fiber producers absorbed the seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all crease, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases, it remains to be seen if they all creases it remains to be seen if they all creases it remains to be seen if they all creases it remains the crease it remains the creases it remains the creases it remains the crease it remains the creases it remains the crease it remains the creases it remains the creases it remains the crease it remains the crease it remains the creases higher raw material costs.

n-BUTANOL - Operating rates pushing 95 market price for the vinyl precursor remains percept of capacity has allowed US n-butanol at September's 15c. to 16c. per point let

producers to launch two largely successful price Increases in the second half of 1966 And since the price incesses have come at a time when raw material propylene prices hove been wonk, producers have experienced o smart upturn in profitability as well.

In July, n butanol producers posted a 3c. per pound price increase, and have followed

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

ALIPHATICS INDEX

The Aliphatic Organics Index reflects the prices of 20 representative materials in this sector and the quantity of each produced in 1985.

•	
Oct. 24, 1988	222
Oct. 17, 1988	222
Sept. 28, 1986	222
Oct. 25, 1985	222

Chamical Prices Start on Page 40

that with a 2c. per pound hike in October. One producer says "most of the July increase stuck," and the present initiative is holding

The reason for the relative success of the price advances, he says, it that "not a lold butanol is avallable now, and producers (2) resist" customer efforts to knock the price down. This producer estimates that 1986 domestic production will reach 1 billion pounds, while current operational capacity stands at 1.060 billion pounds.

This tight balance has been created by steady 3 percent annual increase in consum tion over the last three years, coupled with large reduction in North American produc tion capacity. Since lote 1984, Union Carbide shut a 270-million-pound unit in Puerto Rko and Cclanese closed 175 million pounds of n butanol capacity at Bishop, Tex. In addition, BASF closed an oxo-alcohols out to Montreal, Canada, and Shell Is believed to have idled some capacity at Deer Park, Ter Bucking this trend, Carbide has been grade ally expanding its Texas City, Tex. piant The company began a 200-million pound expanded. slon there two years ago, and is still 50-milllon pounds shy of its goal.

As a result of these rationalizations, at demond increases, n-butanol plant operating rates hove jumped from 70 percent of cape ity or worse in 1084, to the current 95 perce level. Not coincidentally, price incress that were launched in 1984 and 1985 falls while two increases in the past three mo have been largely auccessful. Yet, while butanol producers have found recent success in their price announcements, n-butan prices atill remain below levela quoted in the late 1970's.

CARBON BLACK OIL - Markel soil report that Exxon has posted a new price \$12.50 per barrel for carbon black oll, as Increase of \$1.50. The Increase is effective November 13, but one source says little product is available from Exxon before the

Observers say Exxon is the major carba black oil producer and that most often suppliers follow its lead in pricing.

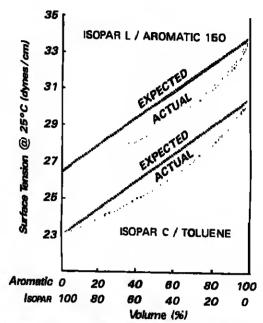
The oil was increased by a similar amou lo September, when it had been priced als long-time low of \$9.50 per gallon. Carbot black producers absorbed the September it

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October 27, 1986

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ALIPHATICS

but the market remains so tight that one producer says several spot purchases have been made at 1/1c. above this level. The export market price ia also above domestic levels, the source says.

VCM continues to be in tight supply. Exports of monomer surpassed the billion pound mark in August, and the domestic vinyl market is booming. One monomer pro-ducer said sales of PVC last month reached an all-time high for September. The producer saya there is enough monomer for domestic consumera, but importers of US VCM are scrambling to get enough product.

A producer says the supply tightness is lilustrated by the current reduction in monomer "exchanges." He says producers normally borrow large quantitles of VCM from other manufacturers, but that practice is now restricted.

The tight supply-damand balance would normally warrant higher selliog prices, one source says, but weaker prices for PVC dur-

lng the third quarter has effectively held down VCM values. However, PVC price in creases have been posted for October and November, so VCM makers may get ao apportunity to further firm their own selling

VCM is expected to remaio to tight supply for the balance of the year, sources say, even though November and December are tradtionsliy slow demand months. Domestic de mand may taper off as the housing indising slows down, but export sales should stay strong. At the same time, several plant turnarounds planned for now and later in the year should help keep supply snug. Currently, Shell Chemical has taken a three-week turnaround at its 840-million pound Deer Park, Tex. monomer facility. The plant is the back on line in early November

Specialties No Cure

Continued from Paga 7

productive capacity, Mr. Doscher says, Hoy. ever, restructuring should not be based only on a policy of closing plants but on a "scrap

Companies need to work together more in the research and innovation areas. At the moment they were all busily paddling their

"European companies oeed to be actively aware of who is doing what in terms of leed vation, so that we don't duplicate eachother's work and then find the research process leadlng us into building plaots which the global market does not need," he says.

Diversification through acquisition, for exampie, has many pitfalia. The purchaseren pay so high a price that it can oever record the premlum. "Many of the price-earning multiples for US speciality companies are ludicrously high in relation to the prospets for their businesses," Mr. Rodger says.

COMMODITIES MATURE MARKETS

"By contrast, a speciality operation requires an informal and flexible structure," he says. "Its success dopends on its capability to act in an entrepreneurial manner and to lake calculated risks. The whole culture of the organization has to favour individual action and fast response."

"In bulk chemicals and plastica, a supplied is pretty well forced to follow a low control of the atrategy and the main decision is whether to do this oo a broad front or to coocentrate of particular market segments," Mr. Roige

Merrill Lynch Europe, said that in the low term, innovation is the key to the lunch growth of the European chamical industry

of oil and exchange rates.

"In general, the potantial impact falling dollar in weakening the compaposition of Europe in ovarseas market weights improvaments in the cost phecausa Europe buya its feedstocks in the cost process lars," ba axplains.

and bulld," program instead.

own canoes into the future, Mr. Doscher says

Dougias Rodger, a chemicais specialist a management consultants McKinsey & Co also warned the CMRA members of the dargers of awitching into specialties io an effoil to improve profitability.

The acquiring company also runs the fit of making a new subsidiary adapt to the parent's way of doing things, however inapprepriate that may be.

"A classic example of this was the Gui Chemicals acquisition of Harshaw Chemcals and Millmaster Onyx, companies which were eventoally sold again," Mr. Rodgerer

"The main reason why you are likely is make a mess of a newly-acquired specialities business is the enormous organizational col tural and business differences between 1 large, commodity-oriented chemicals com-pany and a much smaller speciality com-

The commodity company has a formal rigid structure geared to operating in maint markets. It is inclined not to take risks, making careful decisions backed by all depart-

Tony Church, an investment analyst but oot just in technical areas:

"Technical innovation without man innovation appears to be provided of the ingredients of success," ba says.

Chamical companies in Europe have much over the last few years to reduce by closing plants and cutting product costs. But investora tend to give greated portance to short-term factors like the

Europe May Draw Continued from Paga 5

percent of chemical use to 40 percent by

crease from 5.75 million to 5.55 million tons

because of a rise in use of propane and ethane

edstocks. At present naphtha accounts for

around three-quartera of cracker feedstock.

REFINERY PROPYLENE RISING

Mr. Browniog estimates that propylene

supplies from refineries for chemical use will increase by 250,000 tons to 1.25 million

tons by 1990. Some of the supply gap could also be filled by a rise in low severity

ethylene cracking. Despite temporary in-

creases average net imports are expected to

remain at their 1985 level of around 250,000

Laigi Boido, managing director of Norsk Hydro Belgium SA, called for action by West-

ero Europeao governments to curb the flood

ol olfrogen fertilizers in the region from

Eastero Europe and Middle East, Latin

America and other parts of the developing

Western European fertilizer companies

done much over the last few years to

bring down production costs by reducing the

energy intake of their plants to make them

more competitive. However, It's maintained

importers have still been able to undercut

prices because their plants have heen built

more for strategic purposes than the need to

"Imports from outside Western Euorpe, at

prices that can easily be classified as dump-

ng levels, are creating the basia for a regime Insustainable low prices all over Western

as against 7.16 st present.

low or unleaded petrol.

logs on to 1990.

make a profit.

own sake, but as a byproduct or coproduct of another manufacturing process." Europe," Mr. Boido aaya.

"In this situation the problem becomes po-litical. Nobody can in conscience accept that He expects that propylene demand in Western European agriculture is aupplied by Western Europe will maintain an annual avimports, because this would put the key of erage growth rate of 2.9 percent (against 1.6 gercent for ethylene) until 1990 when total our own survival in somebody else's hands." consumption should reach 7.51 million tons

Since 1960 the share of the non-communist Industrialized countries of world nitrogen Much of the impetus behind the Increase In fertilizer production has fallen from 73 percent to 36 percent. In the same period that of demand comes from a steady rise in conthe Connecon countries rose from 16 percent sumption of polypropylene which is expected to push up its share of the sector from 37 to 30 percent and the share of the developing countries from 10 percent to 36 percent. At the same time propylene output from sleam crackera (at high severity) will de-

Global overconpacity has kept prices at a low level since the mid-70s. This year they plummeted even further as a result of the fall in the oil price and attempts by oil-exporting countries to increose sales of fertilizers to maintain revenues.

Since 1980 Western Europe has reduced its Much of the shortfall, however, could be ammonia capacity by around 1 million tons to just under 14 million tons. In an effort to met by a rise in propylene from fluidized catalytic crackers (FCCs) used to provide cut energy costs, European companiea have ighoclane gasoline as Europe moves over to also built larger plants. Over 75 percent of West European ammonia capacity is now provided by plants in excess of 200,000 tons. Western Europe continuca to be a fore-

runner in lowering energy consumption as it was a mong the first to feel the shock of the Increase in energy costs," Mr. Boido aays. But it's felt further plant closures are

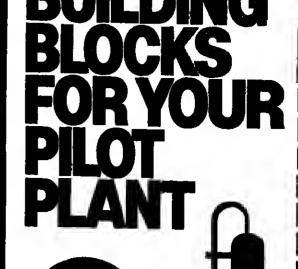
needed. He reckons that 15 to 18 percent of Western European plants are over 20 years old and as a result uneconomic in terms of chergy consumption

Explaining the reasoning behind Norsk Hydro's moves to gain a dominant position in the Western European fertillzer market through acquisitions, Mr. Boido says that the Norweglan-based company is assuming that governments will accept that a certain amount of fertilizers have to he produced

"They will understand that the door cannot he opened completely to supplies from outside," he says. "There has to be a balance between local production and importa.

"Our philosophy ia based on the belief that someone in Western Europe has to produce fertilizers by the best technological means avallable."

The company has been buying up plants that are so starved for investment they are in danger of going out of business. At the same time it is hullding the most technologically advanced plants to face up to the competition



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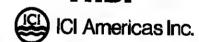
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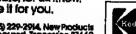


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October 27, 1986

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from outside Western Europe

Dr. Jurgen Frohling of the agrarian economy and ecology department of Bayer AG's agricultural division, expects that more companies will pull out of the crop protection market because of the sosring costs of R&D.

"The development of a modern crop proection product which meets all specifications for effect and compatibility with the environment currently costs more than 100 million Deutsche marks (\$53 million) over a period of ten years," he told the ECMRA

"Worldwide only a few companies can afford such an expenditure, accompanied by a correspondingly high degree of risk. In recent years many companies active in the crop protection sector have been no longer able to continue their efforts. This process of eorganization and concentration will certainly be extended into the fulure."

At the same time extra pressure is being put on companies by slow growth rates in some sectors. Dr. Frohling feels for example, that the world pesticides market will not expand over the next four to five years mainly because of agricultural overproduction in Europe and North America which has drives duwn global crop prices.

Farmers are also much more efficient in their use of agrochemicals which has logcred consumption levels.

"Whereas to to 15 years ago, it was slagard proctice with erop prolection products be applied at between 1,000 to 3,000 grams of active ingredient per hectare, the level today is between 10 to 100 times lower."

Last year, he estimates, the world eng protection market was worth \$15,990 ml lion, of which insecticides accounted for a percent, fungicides 18 percent and berbicide 44 percent. The US represented 32 percents the world market. Weslern Europe 22 per cent and the Far Eost 19 percent.

James Elickey, a consultant at Siratege Analysis, Inc. Europe in Brussels, predicted that sales of speciality adhesives in Western Europe will grow at nn snnual 5.6 percent unlil 1990 while the total adhesives marke will expand by only 2 percent a year.

Reactive hot metal sdhesives will grow be percent annually, polyuretbane adhesing a percent, anacrobics and cysnocyles percent each and epoxies by only live-

Sales of reactive hot metal adhesives are sing rapidly mainly because they are subable for robotization in the automobile indetry - the major market for high-perfers ance adhesives. They now have a 2 lo? percent share of the speciality market, with is likely to increase even further if they can penetrate the aircraft industry.

A blg impetus behind the growth of polyurethanes is their use in the direct glasing of car windshields. This year four million cars are being direct glazed in Western Errope. In 1987 the figure is expected to resid.

Polyurethanes are replacing epoxy adisives in some sectors and in the long ten. could push them out altogether.

The growth of an aerobics depends a lote: the health of the Europeon automobile indetry. With Loctite of the US, one of the bi playera in the Western European markets tomotive accounts for 50 percent of E ropean anacrobics turnover.

Like many other speciality adhesise anaerobics are only slowly being accepted aircraft companies.

"A lot of these high-performance and sives do not have a history so their products need to work with industry to get themeval ited," Mr. Hickey explains.

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DRUGS & FINE CHEMICALS

Citric Acid Imports Exert Pressure on Domestic Pricing

Citric acid imports are putting pres-sure on domestic selling prices, US pro-nillion pounds, and exports to Australia dethis year, imports are running 17 percent ahead of last year's record-setting pace, according to the most recent govrnment figures.

About 33.4 million pounds came to the US through August, an amount almost equal to 1984's lotsl for the full year. Through August of last year, slightly less than 29 million pounds had entered the US. Last year's total ol 43.1 million pounds was an all-time high, but 1986 imports should exceed 50 million

The leading exporter to the US, Belgium, has not locreased its shipments here, sending about 10.5 million pounds through August of 1986. However, Belglum is the aource of llolimann-Ls Roche's material, and that company is considered by many to be the equivalent of a domestic producer, because of its activity and the services it provides.

The next three greatest sources of citric acid imports, though, have significantly in-treased shipments here. West Germany has sent 7.5 million pounds through August, al-most 70 percent more than last year's 4.4 million pounds. The third leading the series of the se million pounds. The third leading exporter to the US, Israel, has increased its lotal by more than 30 percent (5 million pounds, up from 3.6 millen pounds), and mainland Chins has more than doubled Its US sales, sending 3.1 million pounds to the US, 120 percent more than the 1.4 million pounds it sent through

WEST GERMAN CITRIC

Benklser Inc., Ihc West German source of cilric scid, expresses surprise in regard to the great increase from West Germany, and aspokesmao insists that some material must becoming to the US from other countries, via Wesl Germany. In any case, the growth Indicates that imports continue to carve out a alger share of the US market.

Domestic producers are split concerning China's effect on the market. One producer thinks that China's low pricing (solid by several sources to be the lowest-priced citric acidjexents s definita downward pressure on domestic pricing. Another producer, though, claims that even with China's increusingly active role, it ailli accounts for only a small percentage of the overall US citric acid mar-

Imports are expected to continue increosing, at least in the short term. Prinducers point out that, despite the dollar's weakening, importers doo't want to relinquish their ainrtel share. Also, notes one producer, ninny "local" plants are opening in countries such a Thalland and Turkey. With those markets closed foreign aources are turning more and

Despite the Import activity, Pfizer has inreased lis domestic capacity and its capacly in Ireland. Pfizer notes that most of the ATIGISE WAS IO Ireland, and says the domestherease was done with an eye toward the More A spokesman saya that in the longlam imports will even tually stabilize. In the asseline, imports are expected to continue

security a product. A source list and sling price is 73 % cents per pound.

Reproducers baye not been as fortunate in

the producers have not been as fortunate in the state of the parts. Exports through August fell to the parts in the parts of the pounds, down from 6.7 million beautiful in the parts in th

ducers of the material complain. So far creased to 1.65 million pounds. Japan and Australia are the US's largest export mar-

One producar says the export market is weak because European price competition is "Intense." He adds that Europe has long had the advantage in the world market, because it became involved in citric acid much ear-lier than the US. As far as Japan is concerned,

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP Ascorbic Acid, \$1 per kilo Calfeine, \$1 per ib. Niacin USP, \$0c. per kilogram Niacinamkia USP, \$0c. per kilogram Pyridoxine HCL, \$3 per kilo

CHANGES/DOWN

DRUGS INDEX

Tha Drugs & Fina Chamicals Indax rellects tha pricas of 10 reprasentativa materials in this sactor and tha quantity of each produced in 1985.

Oct. 24, 1988 Sapt. 26, 1986 Chemical Prices Start on Page 40

he claims that Chins has been supplying much of its material, as part of an effort to increase business dealings between the two

A rumor that Corgill was plonning to enter the citric acid business remains a rumor. The company opened a high fructose corn syrup plant this year in Eddyville, Iowa, and citric acid sources say Cargill may start producing citric acid at that facility. Corgill declines

Sodium cilrate, the salt of citric acid, has also seen an increase in imports—4.3 million pounds through August, compared to 2.1 milion pounds through August, 1965. Pricing Is

CAFFEINE - Knoll Fine Chemicala is raising the price of its synthetic caffeine, effective November 1.

Twenty-thousand-pound shipments will cost \$5.80 per pound, up from \$4.60 per pound. The following prices will also become effective November 1: \$5.85 per pound for 10,000 pound shipments; \$5.90 per pound on 1,000 pounds bosis; and \$5.95 per pound for less than 1,000 pounds.

Knoll, which imports its caffeing from West Germony, attributes the Increasea to the soft US dollar. Other suppliers of caffeine nota that tight supplies have had a firming effect on the market (CMR, 10/6/66, pg. 23). Major reasons for the tightness are increased demand and the Brazilian drought.

Also concerning caffalna, the National Cancer Institute racantly concluded that there is no association between coffee drink-

Densitic list pricing remains the same as at the legiuning of 1986. Pfizer's list prica is searchars alleged a connection between FBD and consumption of methylxanthines (which and consumption of methylxanthines (which and consumption of methylxanthines). leads per pound, 83 cents West of the Rocking all the Laboratories' list price is 61 cents

searchars alleged a connection between and consumption of methylxanthines (which include caffeine). Questions about the walld-include caffeine). US. Spokesmen will not divulge ity of that theory arose, leading to the NCI Alleg Prices, but acknowledge the pressure study. NCI examined about 3,300 women, and study. NCI examined about 3,300 women, and One spokes man claims that imports genarthan his common we would be sent sper pound less breast disease (another name for fibrocystic breast disease)."

The researchera also wrote that their results are consistent with "those of several epidamiologic studies undertaken to address this issue, as well as with results from laboratory studies which have measured physiologic rasponses to caffeline consumption.

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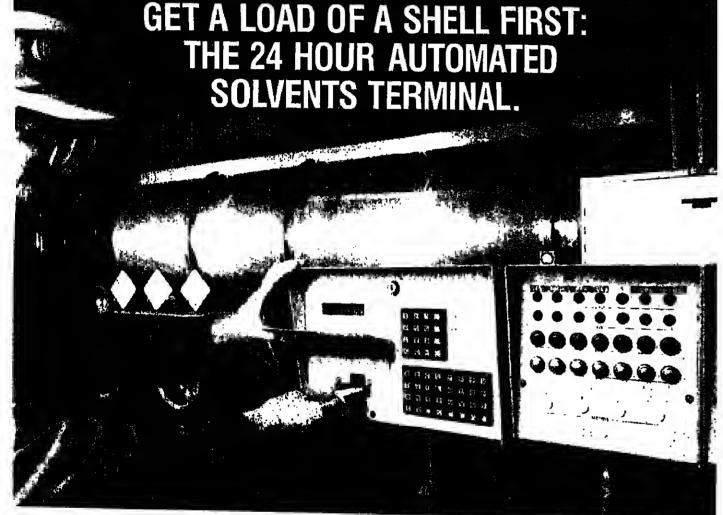
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ENZYMES - Novo Laboratories, Inc., will be raising its contract prices for enzymes used in starch processing, effective January 1.

The new contract bulk truckload prices will be "AMG 200L" (glucoamylase), \$3.50 per liter; "Dextrozyme 225/75," (glucoamyiaae - puliulanase mixture), \$5.85 per liter; and "Termamyl 120L" (alpha amylase), \$1.75 per pound.

Also, contract prices for fuel ethanol gradea of these eozymes will be raised for bulk truckload quantities: "Spirizyme 200L" (glucoamylase), \$3 per liter; "Liquozyme 120L" (slpha amylase), \$1.65 per pound; snd "Liquozyme 60L" (alpha amylase), 85c. per

Spot prices for the above eozymea will be 8 to 8 percent higher than the contract pricea. Prices for truckload quantities of druma are 5c, per pound sod 10c, per liter higher. Terms are net 30 daya, f.o.b. Franklinton N.C., freight equalized

According to a spokesman, these Increases are needed to obtalo "acceptable" profit

margins, following a three-year depression.
PHARMACEUTICALS — Indis'a production of pharmaceuticsla bas jumped 20 percent during the last year, says Satisb Shah, president of Aakash Corporation. Other observera agree that India is making its presence felt in both the US and the rest of the

Mr. Shah also includes fine chemicals, dyes and intermediates in his growth estimation. "Bombay is on the ocean and has new piera made for higher efficiency in loading and unloading ships," he says. He continues that with the US dollar's weakness, companies are looking toward the third world for less costly material

One reason for lower costs is said to be India's relatively cheap labor. For example, Mr. Shah estimates that a chemlat who makes \$30,000 a year in the US would earn \$8,000 a year in Indio. Likewise, factory workers who earn \$20,000 s year in the US could expect to earn \$2,800 a year if they

worked in India.
Mr. Shah adds that Prime Minister Rajiv Gandhi'a policy of "opening up" trade rela-tions has helped India carve out a larger share of the worldwide chemical market. Among these "openings" la a widespread re duction of import tariffs.

Acetaminophen, lodine and penicillin are exmsples of chemicals in which India has become more active recently. In particular India is sending more penicillin to the US Psyllium seed husk, a product which comes to the UB exclusively from India, is coming here in dwindling amounts in 1988.

J&J Arthritis Drug Discontinued in UK

Johnson & Johnson saya It ia discontinule sales of the arthritis drug "Suproi" in the United Kingdom, but its McNell Pharmacee. tical division will still market the wider used prescription painkliler in the US.

"This decision has been made on commercisl grounds," the company's Ortho-Clas subsidiary said in letters to physicians and drug regulatory authorities in the UK. The company attributed its decision to poorsale volume in the UK market.

Johnson & Johnson, which does not disclose figures on sales and users, said it continues to believe that "Suprol" is a safe am effective drug in the bands of physicians with proper prescribing information.

Public Citizen Health Reaearch Group charged in September that "Suprol" had caused kidney damage in hundreds of users.

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Drug Export Action

against maoufscturers, and current Federal law provides no source of compensation.

Faced with costly damage awards, manufacturers have raised prices of some vsccises by 500 percent io the past two years. Since 1984, the number of companies licensed to make vaccines has dropped from 15 to three, creating serious ahortages of

According to the bill, any child suffering a known solverse reaction within a certain time after receiving required vaccines against pollo, measies, mumps, rubella, diphtheria. tetanus or whooping cough would be automatically eligible for compensation by petilioning the Federal courts.

But in a letter to Sen. Orrin Hatch (R-Utah). the Senate sponsor of the omnibus health package, the Justice Department said it would recommend a veto because the vacdee provision would creste "a major new millement program for which no legitims te national need has been demonstrated."

Department of Heslth and Human Services siso atrongly opposes the vaccinc measure, but HHS supports the pharmaceutlcal export amendments as well as most other components of the package.

The drug export provision, proposed in 1985 by Sens. Hatch and Edward Kennedy D-Mass.) would allow US companies to export drugs to countries that have well-develped procedures for the approval of pharma-

are approved in foreign countries earlier than in the US are prevented by law from supplying those foreign markets from their plants in the US

They are forced to either build plants abrosd or license out their products, and valuable American technology, to foreign manufacturers. As a result, the industry argues the US economy is deprived of investments, jobs and exports.

Lifting the ban on orug exports, according to a PMA snalysls, could create 8,000 to 10,000 additional jobs and \$400 million to \$500 million additional exports in five years.

Sen. Hstch sald the "isndmark legislation" would help "In Improving the competitive position" of US pharmaceutics companies in overseaa markets

Mr. Mossinghoff credited Sen. Hatch, the chairman of the Senste Labor and Human Resources Committee, with gaining congressional approval of the drug industry's top legisistive priority.

"Without chairman Hatch'a persistence and political acumen, this bill never would have been brought up on the Senate floor," aays the PMA president. "He pushed it over

A PMA apokeawoman says the organization does not have a position on the vaccine measure because its member companies are apilt on the Issue, but the industry strongly Us pharmaceutical houses whose products supports the oversil drug psckage.

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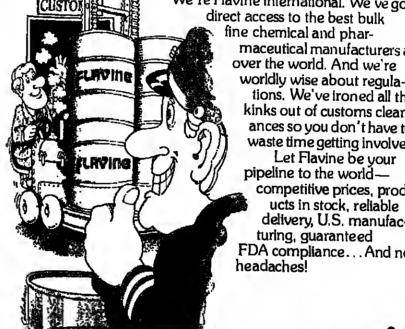




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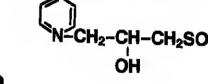
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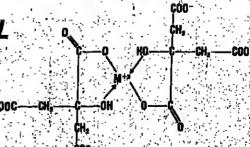
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CHEMICAL MARKETING REPORTER

October 27, 1986

Waste Rule for Military Continued from Page 4

water standards, but had not installed appro-water standards, but had not installed appro-lin their letter, the 70 legislators as Mr. priate groundwater monitoring wells to gauge the extent of the problem because tills site would be exempt from federal or state standards under the proposed rule," Rep.

Synar says.
"We slso found that one contractor at the Hanford reservation in Washington State used the proposed rule to classify every single liquid waste stream at the Hanford Reservation as byproduct, which the proposed rule would exempt from federal and state hazardous waste regulations," he adds.

Rep. Synar notes that DOE's proposed rule was opposed by every alogle one of the 32 agencies, organizations and individuals who

"The Nuclear Regulatory Commission sald that the proposed rule probably was ille-gal and warned that it could wreak havoc with many of the Commission's regulatory programs for the private sector. Environmental Protection Agency also opposed the rule. Frankly, in the face of all this opposition, I don't know why DOE hasn't withdrawn the rule. Instead they've been 'reviewing' it since lsst March," Rep. Synar says.

RULE WOULD EXEMPT DOE

In effect, the proposed rule would exempt DOE mixed waste from the Resource, Conservation and Recovery Act (RCRA) and atate bazardous waste laws on the basis of how the waste is produced and Irrespective of whether the waste contains chemically haz-

The rule would accomplish this by defining aa "Byproduct Material" all of DOE direct process wastes. RCRA exempts Byproduct Material from its requirements.

NRC has Interpreted Byproduct Material to include only radioactive materials. But DOE's proposed rule attempts to "clarify" the term Byproduct Material so that it appiles to nonradioactive hazardous as well as radioactive components of mixed waste.

Under the rule, there could be two DOE mixed waste atresms with identical chemical and radioactive properties, but because of how they were produced, one could be classified as mixed waste and subject to

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Herrington to withdraw the rule and in in place, issue inmediate policy guidance that brings DOE into line with what NRC and

EPA are doing for the private sector.

NRC and EPA have decided to address both the chemical aa well as radioactive las. ards of mixed waste and they have taken the position that any mixed wasie that coning chemically hazardous components that should be subject to RCRA and state law are to be subject to RCRA and state laws

"Congress clearly Intended RCRAY regulatory scheme to be comprehensive and to apply to federal facilities in the same man ner, and to the same extent, as the privale sector," the 70 members told Mr. Herringing DOE's proposed rule "thwarts the intent of RCRA," they say.

Allied-Signal

Continuad from Page 9

for the third 1986 quarter were up 49 percent to \$22.9 million from \$15.4 million, min Edwin E. Tuttle, Pennwait's chairman and

Most of the improvement is attributed to the Chemicals & Natural Resources Group which posted an 60 percent Increase in ear ings from \$14.7 million to \$26.7 million.

GAF's third-quarter income before ertraordinary credits reached \$24.5 millional compared with \$15.6 million a year ago, at : increase of 57 percent.

This was the eleventh consecutive quarts. increased earnings, comments Samuel J Heyman, chalrman and CEO. Operating profits increased 26 percent to \$29.3 million from \$31.1 million, Mr. Heyman notes.

Witco reported record net income forth third quarter and for the first nine months Income in the quarter amounted & \$17,206,000, an increase of 8 percent on \$15,948,000 a year ago.

William Wishnick, Witco's chairman, sail the income growth was mainly attributed to capital improvements which have resulted in more efficeint production process Als RCRA, the other could be classifled as cited were lower costs of raw materials

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Superfund Bill Conlinuad from Paga 3

tion or failure to clean up toxic wastes." remarked Leslie Dach, a representative of the petroleum tax, or \$550 million, and \$250 National Audubon Society.

Chemical Manufacturers Association. which cailed the bill an "acceptable compromise" that will "strengthen and extend" the oational cleanup program, sald it was gleased the President decided to approve the measure so EPA can resume full-scale

Here are the bighlights of the new superand law signed by President Reagan Octo-

Money - Authorizes spending \$6.5 billion for waste dump cleanup activities over five years. This is up conaiderably from the \$1.6 billion budgeted for the program's first five years and \$3.2 billion more than sought by

On top of the \$8.5 billion is \$500 million for s oew program to clean up leaking underground storage tanks, a growing environmeotal concern because of the danger they pose to drinking water sources

BROADER TAXATION Who Pays? - During superfund's first five years, the petrochemical and petroleum industries paid \$1.4 billion in taxes. The new law spreads the burden by creating a broadbased tax on manufacturers with \$2 million or more in annual profits. This provision, strongly opposed by the President, is expected to generate \$2.5 billion over five

Under the new tax structure, oll compa-nes will pay \$2.75 billion; petrochemical feedsdlock producers \$1.4 billion; and the Treasury Department will contribute \$1.25 billion in general revenues.

The remsining \$600 million will come from interest oo superfund monies and clesoup cosis sessed against companies responsible for the waste in a particular dump. the leaking underground tank program will efinanced by a .13 cent-a-gallon tax on mo-

Inaddition to the \$1.4 billion feedstock tax,

million of the broad-based tax for a total of \$2.2 billion.

To the relief of all superfund taxpayers who had feared the tax might be imposed retroactively, the bili provides for the tax to become effective January 1, 1987. Schedules — EPA will be required to begin

cleanup work at a minimum of 375 of the nation's worst toxic waste sites in the next five years. The agency must also drafi cleanup plans for between 275 and 650 sites during the same period.

The bili gives EPA four years to evaluate the 20,000 or more dumps in the national Inventory to determine which ones should be added to the National Priority List, making them eligible for cleanups under auperfund There are now some 900 altes on the liat or

proposed for listing. Cleanup Standards — The bill requires superfund cleanups to render sites to minimum leaith standards set by a variety of Federal environmental laws covering the quality of air and water and disposal of toxic aub-

This is a response to criticism that some au perfund cleanups created worse problems and in some cases merely shifted waste from one leaking site to another.

EPA can waive the standards only in instances where following them would be technologically impractical or could cause greater harm to the environment. In states that have tougher standards than those contained in the Federal law, the state standards will apply.

A review of cleaned up dumpa must be conducted every five years to ensure that waste materials are not escaping. The legislation mandates that EPA use permanent treatment techniques when fcasible.

Right-To-Know - In a response to the Bliopal, Indio toxic gas leak tragedy of 1984 and circmical leaks in the US, the bill requires large chemical manufacturers and users to

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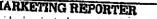
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flle public reports about daity emissions of hazardous and toxic substances from their olants during routina manufacturing.

The law also calls for comprehensive emergency planning and responsa procedures to be used following an accidental release. The provisions allow for trade secret protection, and for citizen auits and penalties to enforce the requirementa.

Chemical Industry spokesmen say the rlght-to-know requirementa are expensive and burdensome, and EPA says they will be difficult to administer.

Settlements - Congress rejected efforts to soften the 1980 superfund law's strict llability scheme, which makes any company that contributed to a waste site potentially responsible for the entire cleanup cost.

Language was added to encourage responsible parties to settle claims brought by EPA. The new law also creates a Federal atatuteof-limitation standard designed to make it more difficult for companies to use restrictive state damage laws to avoid lawauits by citizeas who cialm injury due to toxic substance exposure.

Federal Facilities - The law seeks to close s blg gap in the original law: its lack of application to toxic wastes produced by Federal activities, principally those of the Defgense and Energy Departments.

For the first time, Federal sites will come under the same regulrements as private chemical and radioactive dumps. There are about four dozen Federal sites on the EPA priority list.

Norsk Hydro

Continuad from Paga 9

capacity of 60,000 tons of magneslum. The new plant will make Norsk Hydro, which already accounts for 25 percent of world production, the leading magnesium producer in the world. The site selected allows possible expansions in the future. Magnesium produced at Becancour will be sold in North America and overaeas marketa.

Norsk Hydro intends, in its purchasing, to

use local suppliers whenever they are competitive. As a result, the company expects that a large part of its equipment and sevices will come from Canadian sources.

Magneslum oxide, containing raw materi als, will be brought to the plant by see and rail. The final decision on the source of my materials has not been made.

Norsk Hydro also announced that it has concluded a 25-year agreement with Hydro Quebec for supplies of hydroelectric power. The contract provides for additional power the event the plant's magnesium producing capacity will be expanded.

The federal and provincial authorities are In favor of Norsk Hydro's plans to build magnesium plant In Canada, and baye given

assistance during the planning stages.

The plant will be owned by Norsk Hylm Canada Inc., a company in the process of being formed. It will be established in Quebe as a wholly-owned subsidiary of Norsh He

Damon Biotech

Continued from Page 4

tech's t-PA have been very encouraging at pre-clinical trials are now underway.

Robert P. Schneider, president and the operating officer of Damon Blotch said "We are very excited by the progress der t-PA activities so far. Although it is by to means certain that we will be able to conclude such an arrangement, joining ions with a major pharmaceutical company with respect to our t-PA activities would be a res significant event for the company and a mile stone in its financial and business develop-

Damon Biotech, a majority-owned nisldiary of Damon Corporation develop manufactures and markets blomedical put ucts through the application of its proelary technologies — the cellular enhance technology and the "Encapcel" system is company is a leading contract supplier monoclonal antibodies to the health-care

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COATINGS & PLASTICS

Carbon Black Makers Face A Second Round of Oil Hikes

increases this month, which raised barrel orices from \$9.50 to \$11 per barrel; now, they are bracing themselves for additional \$1.50-per-barrel hikes set for mid November. So far Exxon, a major supplier of the oil feedstock, has announced CBO increases effective November 13th. Other producers are reported to have announced similar in-

Prices for crude oil, specifically, for No. 6 fuel oil, to which CBO la closely linked, have increased to \$15 per barrel; recent OPEC developments are expected to boost prices further by the end of the quarter. Although the new CBO price hike may be withdrawn, plement producers feel that crude oil values are definitely firming; with each \$1-per-barrelincreaseresulting in a 0.5 cents per pound rise in production costs, the effect on marglas will be considerable in what is already a

Prices for tha colorant have fallen a tolal off centsper pound since January; they were last cut by a penny per pound in late July. when CBO prices plummeted to a record low of \$9.50 per barrel. The oil was sold for \$21.50 per barrel last December.

Current selling prices for J.M. Huber Corpotation's N-500, N-299 and N-700 grades are sill given as 21.25 cents per pound, 24 cents per pound and 21 cents per pound, respecively. Equivalent product lines of other pro-Access are said to be similarly priced.
SOFT DOMESTIC DEMAND

Demestic demand, which began to suffer will the start of automobile and tire downsizing in the early 1980's, was dealt a serious blow in 1984, when carbon black exports trom Canada and Mexico shot up 50 percent, and the US became a net Importer of the

Since that time, finished tires and rubber and plastic imports, especially from the Far East, have further depressed demand, which fell by 11 percent last year.

This year, producers have been encouraged by a better domestic trade balance. Both Canada and Mexico, while it together necount for over 90 percent of all carbon black imports, exported less to the US. Where domestic imports exceeded exports by 81 million pounds in 1984 and 74 million pounds last year the flower will foll to be a way 150. year, the figure will full to between 45 and 50 ollion pounds this year, producers say, respening an additional 24 to 30 million ounds of the US market to domestic produc-

Through July, imports fell by nimost 30 percent overall. Canadian exports to the US were down 21 percent, mostly because of u

mund of carbon black oll (CBO) price plants. Exports from Mexico fell by 11 percent over that same period, as government-controlled CBO prices were raised. Mexican producers had long benefitted from nominal raw inaterial costs; although these are still lower than "world" prices, one producer says

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

COATINGS INDEX

Tha Coatings & Plastics Indax reflects tha prices of 13 representativa materials in this sactor and tha quantity of asch producad in 1985.

Oct 24 1000	
Oct. 24, 1986	306.4
Sapt. 26, 1966	306.4
Oct. 25, 1985	306.4
	400.7

Chemical Prices Start on Page 40

the increases have definitely brought prices for Mexican material more in line with those of other world producers, blunting its compctitive edge in the US carhon htack market. With rising raw material costs and still foirly soft US demand, producers hope this drop in tuports signals a return to domestically-produced pigment; so far, however, they report that any relief in this segment of the market has been more than offset by increased imports of finished rubber prodncts. The number of fintshed tire imports has increased substantially over last year's fig-urc. Some expect US demand to fall an addi-

tional 5 percent this year. Overcapacity continues to dominate the industry; producers describe current capacity utilization rates as being close to Sumnier'a levela, or between 75 percent and 80 percent of a total nameplate of 3.2 billion pounds per year. The industry went through considerable restructuring earlier this year, when Phillips, a major producer, left the

PLASTICS ADDITIVES

PIITIIALATE PLASTICIZERS - Producors and other market watchors question the unusually high phthalate plasticizers export figure which the govornment reported for August. Bureau of Cansus trade statlatica for the month showed exports totalling 34.4 Continued on Page 32

COATING & PIGMENT IMPORTS: AUGUST

CENSUS BUREAU REPORTS ON THE TOP PAINT MATERIALS.

Baken	AUCUA	T 1686	JUI	Y 1986
Antimony oxide. Carbon black. Chrone polare. (the	QUANTITY	\$ VALUE	QUANTITY	
Chron black. (ba.	2,164,411	1,354,736	2,604,117	
Current black. Iba. Chrome colors: Iba.	12,726	74,345	10,019,857	
Unione oxide graph		,	10,010,001	
Chome oxide green libs. Notification in the control in the contro	322,172	636,662	663,015	642,766
WOW Iba.	129,626	146,636	902,466	216,447
Yellow lbs. Jing Yellow lbs. Cobel Oxide lbs. Corous Oxide lbs.	484,746	303,671	362,613	264,466
Cotel Oxide be Devous Oxide be Sen bises	152,666	65,176	263,206	174,848
Oxide (he	22,046	114,650	1,900	65.795
Curous Oxida (ba. Curous Oxida (ba. Sen blues (ba. Sen saides, hydroxyd (ba.	40,000	35,296	199,154	101,626
ber blies (bs. ber blies (bs. ber blies, bydroxides, nat') (bs. britonides, hydroxides, nat') (bs. britonides, hydroxides, nat') (bs.	386,996	474,404	413,500	533,939
ominetic: Indiana, natil	230,105		82,050	
Black	280,100	.51,662	02,000	17,765
Florit	440 440	40 404	400 002	447 000
Yellow	146,440	49,421	400,265	117,035
	2,216,736	310,494	1,049,626	263,097
MAIN.	1,760,856	418,776	3,087,990	691,868
	912,479	1,443,856	1,660,414	1,034,651
VONIDAR	2,616,416	654,254	2,535,476	545,022
	246,000	£2,921	\$4,000	21,125
sted inc. Other least	150,415	. 366,497	123,266	334,083
Stet buttonisc, other lace (bs. Sted lac. (bs. lbs. lbs. lbs. lbs. lbs. lbs. lbs. l	,	200,756	171,950	249,564
Hacket doxide. Ibs.	747,749	579,457	290,264	285,844
	86,222,820	21,726,216	56,542,670	21,275,249
Search doxide. Ibs. Searche blues. Ibs. Sinc Date (searche beside). Ibs. Sinc Date (searche beside). Ibs.	681,616	585,037	676,717	666,164
1980 (198)	6,612	2,164	N/A	N/A
The state of the s	8,677,868	2,661,586	11.065.508	3,455,668

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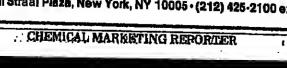
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CHEMICAL MARKETING REPORTER

October 27, 1888

HEAVY & AG CHEMICALS

Peroxide Makers Continued from Page 3

tree regeneration rate much higher than in Caneda. Growth estimates for the pulp and paper industry vary, but overall, 1987 growth is estimated to be between 8 and 10 percent, with the Cana-

dian market expanding as much as 15 One producer notes that 1888 growth may not be quite as spectacular since no new pulp

nill construction is expected that year. Following pulp and paper, environmental applications are looked to next as filling the Imminent supply/demand gap. Companies like Deguasa and Interox say their experience in Europa gives them a clua to where the

US environmental market is going.

Probably the most talked-about application is bioreclamation (CMR, 8/4/86, pg. 3). The field is new and fairly broad, but in general refers to the in situ generation of oxygen to enhance normal biological processes. The most promising bioreclamation application seems to be in cleaning up underground or-ganic chemical contamination from leaking atorage tanks.

Less esoteric environmental applications are also promising. Degussa notes that in Europe peroxide has commercial use in the treatment of waste air auch as SO2 and NO. While current EPA emphasis seems to be on waste water treatment, Degussa expects activity In air treatment to pick upin the future.

WASTE STREAM "POLISHING" A waste water treatment area that producars expect to grow iain waste atream "poliahwhere an effluent stream cleaned by traditional methods is given a final treatment with peroxide to bring it up to proper specifications. Overall, atronger environmental legislation on the Federal, atate and local levela is expected to create a real need or more complete wastawater treatment.

Peroxide use in uranium mining has been on the wane for many years, victim of nu-clear energy's woes. Producers say that gold mining, bowever, ia a prospective new mar-ket. Most gold is extracted through a leaching process involving sodium cyanide. In some mining areas, cyanide-contaminated solutions can be collected in ponds and allowed to slowly oxidize. In other areas, though, groundwater contamination is a real problem, and a faater cyanide destruction method, such as oxidation with peroxide, is

The gold mining business has been spurred lately by rising gold prices. Degussa, which considers itself the leader in this field, axpects five million pounds of peroxide to be used in this application next year, up from

practically nothing this year.

An area that, according to one producer, could create over 30 million pounds per year of peroxide demand, is in the detergent field. Market sources say that major home laundry detergent makera such as Proctor & Gamble and Unilever are test marketing detergenta containing peroxygen bleaches, the most prominent bleach being sodium perborata

One observer says it takes approximately

25 pounds of hydrogen peroxide to make in pounds of sodium perborate. Du Pont is the only US producer of sodium perborate is tetrahydrate form. Degussa and Interox both make the monohydrate overseas.

Initial indications are that the delegent test mark eting is quite successful, and peror. lde producers expect a commercial entry is the not too distant future. Sources say that I the commercial laundry product was succesful, most peroxide makers would begin preduction of sodium perborate or other peror.

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

HEAVY & AG INDEX

Tha Haavy & Ag Chamicals Index reflacts the prices of 18 representative materials in this sector and the quantity

or each produced in 1965.	
Oct. 24, 1988	113.
Oct. 17, 1986	113.
Sapt. 26, 1988	
Oct. 25, 1985	

Chemical Prices Start on Page 40

ides in the US. Du Pont, it is felt, wes initially have the upper hand as conversion from the tetrahydrate to the monohydr perborate is relatively straightforward. Looking further down the road petoti

has a potentially vast market in the tree ment of waste cellulose. Scientisls at the University of Illinois are working with percent on ways to convert normally discarded ago cultural byproducts such as wheat strawa corn cobs into feed that is digestable by runt nant animals.

US Department of Agriculture estimate that a i percent penetration by celluled waste material into the animal feed marks would consume 27 million pounds of pero ide; a 5 percent penetration would consum over 200 mtilion pounds. The technology make this use commercially viable has n been fully demonstrated, however.

A small but quickly growing market to hydrogen perioxide is in asceptic packagia; One producer puts its current aize at (wo three million pounds per year and estimate annual growth of over 30 percent.

Milk and juices packaged in foll-lined pa per contoiners ore increasing in consum popularity and peroxide is used to sierilize package's foll surface. Traditional steriliza tion methods ora out because of the paper's

BASES & SALTS

SODIUM BISULFATE - Jones Hamilton Company, of Newark, Calif., notes that

The same of the sa

INORGANIC CHEMICAL OUTPUT: JULY

SELECTED FIGURES IN SHORT TONS FROM THE CENSUS BUREAU.

Aliminum suifers service to	JULY '86	JUNE'86	AQ 201
Aluminum auffats, commercial	112,604	106,463	21.197
Celcium carbide, commercial Calcium phosphata, dibesic anhyd	17,101	16,113	80 500
Caucilla and a day displace anhyd	43.671	44,282	14 35
Caustic sode, dry	17,102	15,691	0.49 52
Caustic sode, liquid	943,061	948,138	204 60
Chlorins, gas. Chlorins, liquid	906,624	896,988	EAS 680
Chlorins, liquid	712,652	706,699	014 M
Hydrochierie acid Hydrofluerie acid	279,800	274,802	44 67
Hydrofluorio acid	18,330	15,137	1 927
Hydrogen peroxide	10,703	11,484	00 121
Phosphorus, alamentaj. Phosphorus oxychlaride	29,770	27.850	. 179
Phosphorus oxychlorids.	2.371	2.111	700
Phosphorus pentssuilide.	6,406	8.185	10
Phosphorus trichlorids Potassium hydroxide liquid	7.933	A.126	044
Potaesium hydroxida, liquid	1,300	-	10.74
Potessium hydroxide, liquid Polessium pyrophosphele, anhyd. Bodium chlorate	4 000	1.938	40.016
Aodium chierate Sodium metal	1,683	21.090	20.77
Sodium metaj 2 odljum sulfata, anhvd	20,268	The state of	2.48
Rodium sulfeta, anhyd	00.004	40 286	94,44
	62,001	09,4-	1 16.1

the statement of the state of t

HEAVY CHEMICALS

has changed lis price structure for sodium

The changes were effective October 1 Sodium bisulfate in drums now costs \$15 per bendredweighi, up from \$13 per hundred-weight. The East Coaat price remains \$13 per hundredweight. Additionally, the bulk price is now \$185 per ton in the West, up from \$175 per ion. The East Coasi price remains \$175

SODIUM CYANIDE — E.I. du Pont de Nemoura & Co. changed its price structure for "Cyanogran" and "Cyanobrik" sodium evanide, effective October 15. The former product is in granular form, while the latter sin briquetts form.

The new price for both products is 71c. per pound, delivered. The price was previously Sac. per pound, f.o.b. plant.

FERTILIZER MATERIAL

FISH MEAL - Production of fish meal in the leading exporting countries is up by 7 percent in 1988 compared to 1985, according to International Association of Fish Meal Manufacturers (IAFMM), which recently held its annual conference, in Lisbon.

Manufacturers estimate 1986 production

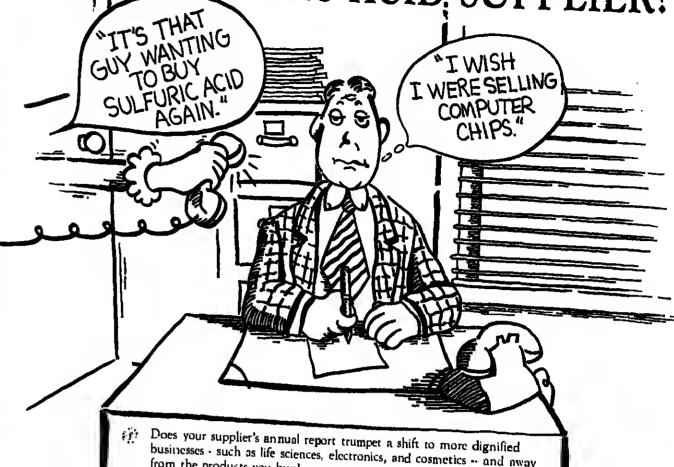
at 3.05 million tons, up from last year's 2.85 million tons. This is largely because of increased South American production.

Despite greater production, stocks are estimated to be 280,000 tons, down from 450,000 tons at the beginning of the year. A spokesman for Chile, the world's largest exporter of fish meal, says only 5 to 10 percent of his country's quarterly stocks were unsold compared to the usual total of 30 to 50 percent. He adds that recent price increases reflect the stock situation. A trade source agrees that the market is firm. Menhaden fish mesi costs between \$310 and \$320 per short ton, while Gulf Port fish meal is between \$315 and \$320 per short ton. The Chilean material is \$335 per short ton, f.o.h.

Exports from the main producing countries are up 10 percent, according to Fish Meal Exporters Organization. The organization estimates exports to be 2.85 million tons, up from 1985's 2.8 million tons. Last year's export lotal, in turn, was 25 percent higher than 1984's total. Exports to the US, though, are about the same as in 1985

POTASSIUMBIFLUORIDE POTASSIUMCRYOLITE POTASSIUMFLUORIDE POTASSUIMFLUOROALUMINATE POTASSIUMFLUOROBORATE POTASSIUMFLUOROTITANATE NOW, GIVE US A CALL: EL WEST PUTRAM, AVE, GREENWICH, CT. 068:30 RL (203) 629-7900 · T.X.: 4750062 BY RALICHEMIE

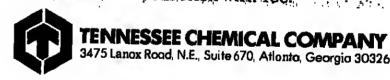
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- businesses such as life sciences, electronics, and cosmetics -- and away from the products you buy?
- five Is your supplier selling through brokers because he no longer has a sales force to call on you?
- Has your supplier been selling or closing down his merchant sulfuric acid plants because your needs are not consistent with his strategic direction?
- Is your supplier now selling you someone else's sulfuric acid instead of his own? Does he no longer offer you a full product line -- 60° through 65%
- ls your supplier's favorite business metals or gasoline or fertilizer or other chemicals? Does his sulfuric acid marketing program depend on how much he's got left over from producing his primary products?

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Continued from Pega 29 million pounds, valued at \$3.6 million dol-lsrs, or about 11c, per pound, while list prices for linear and cyclic phthalale plasticizers such as DIDP and DINP are well over 50c. per pound. Shipments of these plasticizers rarely exceed 500 tons per month, and mnny conclude that some classification error was

COATINGS & PLASTICS

raising prices for the polymer.

Although most feel that the new moote

Increases will warrant a second increase

producer questioned whether Perilli

move was an actual increase of a tele

ment of October's Incresae lo contrate

increase; the firm claims to have see se

penny of the October Increase, and The

higher prices in order to cope with

Producers report that this is a differ-

time to adjust prices; If a second roud!

polystyrene increases does come abed at

quarter will be n more feasible time is

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strengths)

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utilization rntcs.

monomer costs.

MISCELLANEOUS

One analyst lraces the source of this error to a listing of one shipment of 28.9 million pounds to France at a value of \$948,081, or 3c per pound, clearly an impossibility. He apeculates that the figure may have included other eaters or related compounds. Without Il, a total export volume for August of 5.5 million pounds at \$2.6 million, or around 50c. per pound, seems reasonable.

Producers report that the 2c. per pound October price increase has been holding.

Selling prices, once 20 to 30 percent below list and now approaching list values producers say. High raw material costs should continue to pressure margins, however. Supplies of 2-etbyl hazanol (2EH) are still extremely tight. So far, Uolon Carbide Corporation is the ooly US producer to have boosled butyraldehyde production, and this primarily for n-butanol, rather than 2EH, production. Similarly, phthalic anhydride and trimel-

litic anhydride aupplies are expected to re-

maln tight. **PLASTICS MATERIALS**

PHENOLIC RESINS - Producers report that phenolic resin price increases set for October 15th and 24th were "rescinded almost aa soon aa tbey were announced," as makers of phenol were unable to realize 2c.-per-pound hikes planned for October 1.

Phenol producers in turn blamed phenolic resin makers, who account for almost half of lheir total customer volume, for the failure of the raw matarial price increase. Of the four leading US producers of resin, only Borden Chemical Company and Reichhold Chemical Company raised prices for their phenolic resin product lines when phenol cost increases were announced.

This year, all altempts to raise prices for both phenol and phenolic resina have falled. Prices for the aromatic plunged with crude oll early to the year, and resin prices followed suit. Deaplie fairly atrong demand in con-struction-related markets, selling prices for the resin slipped by around 10 percent this

Al least one producer of resin feels that the increase "Is atlll juatified" in light of price erosion and atrong demand, as well as higher production costs; expenses heve risen in excess of raw material savings, he soya, and margins have been aqueezed this year.

POLYSTYRENE - Other producera of

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polystyrene are atlil deciding whether are to follow American Pelroilne's led i. Polyethylene Unit for Taiwan Will Use the Carbide Process Makers of the resin are unanionogia scrilling October's increase as mossili light of strong demand and high cape

USI Far East Corporation will build a Petroleum Corporation's first, second, lhird USI Far East Corporation will build and fourth naphtha crackers.

Currently, USI Far East is operating three tien's gas-phase "Unipot" process.

According to USI Far Easl chairman Antono T. Chong, tha planned new 120,000 metdetons per-year facility will be capable of producing a wide variety of linear low-denily polyethylene realns for film and other

Construction is slaled to get underway early next year and the plant is scheduled lobe completed and in operation by mid-1989. "Completion of the new plant, which will be the first Southeast Aalan LLDPE ploni, will cap a facilities expansion and modernization program begun in 1983 and aim ed at bolstering our positioo aa Southeast Asla'a leading producer of polyethylene," Mr. Chong

acrording to Mr. Chong, the process advaniages include reduced investment and operating casts, compressed construction timelables, and "a unique ability to satisfy the specific product needs of our market."

USI Far East Corporation was first established in 1965. During the last twenty-one years of operation, USI Far East has grown a cooperation with the development of China

high-pressure low-density polyethylene and two high-density polyelbylene lines. Low-density polyethylene annual capacity mea-surea 140,000 metric tons and annual capacity for high-density measurea another 80,000 metric lons. Upon completion of the proposed expansion, total annual polyethylene capacity is estimated to reach 340,000 metrlc tons. Product offering at that Ilme will Include low-density polyethylene, high-donsity polyethylene and linear low-density

Enzon Seeks Okay

Enzon, Inc., South PloInfield, N.J., has filed with Food in Drug Administration to approval to begin human trials using two of the company's modified enzymes — PEG-su-peroxide dismutase (PEG-SOD) and PEG-catalase (PEG-CAT). The substancas are intended for use in trealing disordera reaulting from oxygen toxicity, which often causes fatal damage to Ilssues after burns, kidney transplants and heart attacka

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Senate Shifts

Continued from Page 5

tee would occur at the subcommittee level. where Sen. Howard Mctzenbaum (D-Ohio) is the second ranking Democrat behind Sen. Patrick Leahy (D-Vt.) on the patents and trademarks panel. Sen. Metzenhaum, who is a staunch opponent of patent extension, would be in a hetter position to block at templs by the National Agricultural Chemicala Association to move patent term estoration legislatton.

Sen. Mathlas, the retiring chairman of the calents subcommittee, sponsored patent legislation for NACA in each of the last two Congresses, and helped win Senate approval

At the Agriculture Committee, which has larladiction over the Federal Insecticide. Fungicide & Rodenticide Act, it is uncertain hether Sen. Jesse Helms (R-N.C.) would rctalo the chairmanship or take over the Foreign Relatioos Committee, where he has senlority over Sen. Richard Lugar (R-Ind.).

Should Sen. Helms move to the Foreign Relations chair, Sen. Lugar would take over at Agriculture - a switch that would cause little consternation among major agrichemical companies since both senators sided with the chemical industry on most FIFRA issues during the debate this year.

It's also unclear who would chair the commilitee If the Democrats win control of the Senate. Sen. Leahy has the most sentority, but he has taken a back seat to Sen. Edward Zorinsky (D-Neb.) to serve as vice-chairman of the Select Intelligence Committee.

LEAHY TO AGRICULTURE?

But with his term on the intelligence commillee up, Sen. Leahy could take over as Agriculture - an unwelcome prospect for the chemical industry. While Sen. Zorinsky successfully added patent extension provisions to the committee's FIFRA bill this year, Sen. Leahy fought to toughen groundwater and liability requtrements on the in-

dustry.
At the Environment & Public Works Commilitee, a Democratic victory would put Seu. Lloyd Bentsen (D-Tex.) tn line for the top spot But Sen. Benisen, a strong advocate for the oil and petrochemical industries, would lostead choose to chair the powerful Finance

Sen. Quentin Burdick (D-N.D.), a low-key tawmaker who has shunned committee chairmanships in the past, is next in linc. Since he will be up for re-clection in 1988, another such move seems unlikely.

After Sen. Burdick and the retiring Sen. Gary Hart (D-Col.) Is Sen. Daniel P. Moynihon

Sen John Daoforth (R-Mo.) would retain his chairmanship of the Commerce, Science and Transportation Committee with o Republican victory, but Sen. Ernest Hotlings (DS.C.), a strong foe of product Hobility re-form, would assume command if the

The senior Democrat at the Energy & Natural Resources Committee is Scn. J. Bennatt Johnston (La.), is a strong supporter of the energy industries.



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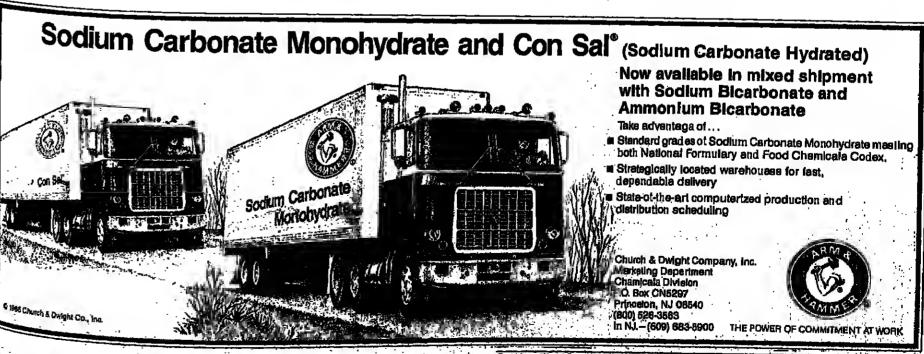
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Ozone Shield a Puzzle Continued from Page? thought of," sald Ms. Solomon. She said slie

wsa "more concerned" than she lisd been before the expedition began in August, because science has been "unable tu come up

with an explanation." But Ms. Solomon said she believes the team's research has eliminated two theories that the ozone depletion is a natural process.

One of those theories proposes that the 11-year solar cycle is responsible, by trigger-ing chemical reactions that have a cumulative effect. This would explain why the Anlartic "hoie" did not appear before the

The other postutates that slight changes in wind patterns resulting in an upward move-ment of air masses could be responsible.

Ms. Solomon said the cause could he a conbination of chemical pollution and a variety of natural events, including the seasonal evsporation of stratosplicric clouds over the polar region. "It's much more complicated than theories have suggested so far," she

The phenomenon is a seasonal cycnt, occuring every Southern Hemisphere Spring, but the depletion has worsened during the psst several years.

Scientists are concerned because the thin ozone layer in the stratosphere is the Earth's primary barrier from dangerous amounts of iltra-violet radiation from the sun.

Environmental Protection Agency esti-Environmental Protection Agency esti-mates that each t percent decline in ozone at shares might be made available to make high altitudes may result in 200,000 more ment was incorrect.

skin cancers around the world every year there ased ultraviolet sunlight reaching in Earth's surface would also have an adequ impact on plants and marke organizative cutists say.

Concern about the ozone layer was fig raised in 1974 when two University of the formia scientists discovered that choose the contract of the contrac leased from chlorofluorocsrbons candeling ozone molecujes.

The gases have since been benned by Eq. as aerosol propelinats, but they are mounted used as refrigerants and forlidately

Aithungh the cause of ozone depletions not lieen proven, the major US probend chiorufinurocarbons recently said in would support, if necessary, a global linke the future rate of growth of fully balogand CFC production capacity.
The leading producer, E. I. du Poils

Nemanra & Co., said it would be willing back a cap un enrrent production and pe gested that safer substitute could be inoped within five years.

USX Stock Correction

The 28 percent of its capital stock beg purchased by Aristech Corporation, sucre sor to the Chemicals Divison of USX Corportion, will he retired. The speculation in its

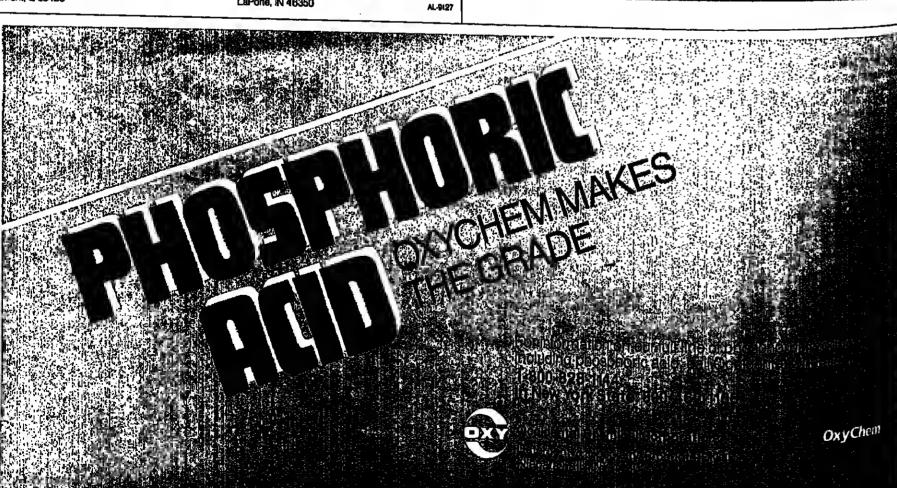
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PERFUMES & FLAVORINGS

Camphor Oil Market Is Firmer As Production, Usage Decline

Camphor oil prices firmed last week, up 10 ceots from \$2.40 to \$2.50 per kilo have been consistently offering their matewhite 35 percent and up 20 cents from \$4.90 to \$5.10 per kilo for camphor oll 1.070, Formosan white 86/88 spot prices also firmed recently, up 25 cents to over \$2 per pound. Industry sources attribute the incresses to a decrease in production and the stronger influence of synthetic camphor powder.

Impuris of alt grades of camphor oll sre well below the 1985 pace: 22,915 pounds have been imported to the US from January through August, 1986, as versus n 1985 yearend total of t53,214 pounds.

Because all of the natural camphor oils are bypruducls of refining camphor powder from crude camplior, the natural oils market is linked to the success of natural camphor powder. "Wilhout demand for (natural) powder," explains a market analyst, "there would be no production of camphor oll."

Synthelic camphor powder production has been slepped up in 1986 to where it has substantially affected both production of and demand for natural camphor powder. Chi-ness producers have helped to drive the powder prices down by offering two grades of synthetic camphor powder at competitive prices. Chinese technical grade synllictic camphor powder ts quoled at \$1.90 per kilo, cost and freight China, and Chinese BP grade h 12.40 per kilu same basis.

"NATURAL CAMPHOR SCARCE"

"Synthetic powder is very inexpensive so calural camphor powder is becoming scarce," says an industry sonree. An essential oils broker agrees: "The synthetic caniphorpowder is steadily undermining the natutal puwder on the market." With a weakened demand for natural material, prodaction has slowed and the quontities of natural camphor oils yielded as byproducts thereby diminished.

Talwan, the ms jor source for natural camphoroil with 97 percent of total US imports in 1985 and 80 percent of the imports from Junuarythrough August, 1988, is reportedly ent-ting back production. "Talwan isn't cullecting the raw materials to moke the powder or is byproducts," says another essential oils

The result of less availability and a proected decline to camphor oil production has ten firmer pricing. The various grades of shite camphur oil are the most widety used and its prices have been the first to be af-

Yellow camphor, because It's u compara-lively small liem of no more than a few tons imported annually, has remained steady, ond ources don't expect it to firm. "There is no endeacy at this point to roise prices," suys

Camphor 1.070 is tikely to be further affected by the lessening of natural powder production despite its drawbacks: "Very litde 1.070 is being tmported these days," obt carcingenicity of the safroic ti con-des Pricing for 1.070 is expected to be ther ss usage declines. "Ocotea cymharm is a comparably priced material," Manimporter, "without the carcinogenic-

"It used to be that supply and deline was getting area weakaned in the Geranium oil prices aread this market, and everyone was getting area weakaned in the Geranium oil prices aread this market, and everyone was getting area weakaned in the Geranium oil prices." he weakened in the paat week due to a large Egyptiao barvest, wide availahitity of malerial, and the scarcity of bour-

The shipping price of Egyptian oil slipped do sales the silpping price of Egyptian oil slipped do sales the silpping price of Egyptian oil slipped do sales the silp same basis. The Chinese oil spot state also fell \$t from \$23,50 per pound to

The 1986 By a serantan oil crop was problem the 1986 by a serantan oil crop was problem as a sea of the 1986 by a serantan oil crop was problem as a seranta adal oils importer emphasizes tha Chi-

cost and freight, New York, for Chinese rial in large quantities and at prices in line with the Egyptian product."

Bourbon geranium oll from the Reunion islands "has been very difficult to get," according to sn olis importer. "They've set up an allocation or quota system for distribution that makes targe purchases next to impossi-

The bourbon gersnium oil is the most expensive of gersnium oils with a spot price of sround \$55 per pound. Its higher price is a

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

Camphor Oli, 1.070, 15c. per kito
Cemphor Oli, Chinase white, 10c. per kito
Cecale, indoneatan and Chinese, 5-10c. per lb.
Oiti seed, Indian recleaned, 4c. psr lb.
Ginger root, Jernelcen, 10c. per lb.
Mece, Padang siftings, i0c. per lb.
Poppy seed, Outch, 3c. per lb.
Poppy seed, Auairelien, 10c. per lb.

CHANGES/DOWN

Careway seed, Egyptian recleaned, 2c. per lb.
Cerdemoma, Indien bleached, 25c. per lb.
Celery sead, Indien, 1c. per lb.
Cloves, Szazillan, 5c. per lb.
Eucalyptus Oil, Chinese 80%, Sc. per lb.
Oeranium Oil, Egyptien, \$1 per kilo
Orenge Oil, Israeli, fob 10-14c. per lb.
Speermini Oil, Neliva fob, \$1 per lb.
Tengorine Oil, Grazillan fob, 85c. per lb.

PERFUMES INDEX

The Periumes & Flavorings index reflects the prices of 11 representative malerials in this sector and the quantity

	Chemical Prices Start on P	age 40
9	Oct. 25, 1985	71.00
2	Sept. 19, 1966	71 00
Ų	JCL 17, 1986	71.00
(Oct. 24, 1986	71.00
	acii supplied til 1900.	

result of higher production costs and limited availability. Another source secribes the institution of the quota system in Reunion to an effort lu avoid the historical practice of adullerating the oil.

CASSIA — Cassia spot prices recorded a i 0c. per pound incresse ocross the board last week. ludoneslan Korlntji "A" through "C" nisa jumped in the futures market 8c. to 10c. per pound for delivery through January, 1987 янкі бс. to 10с. per pound for delivery from i'ebrнary through April, 1987. tnterest in tndonesian cassia was spurred

on by the tudoneslan government's announcement that cassia will be offered according to the "single selling system," beginning Nuveniber t. The arrangement would be similar to the current one in place for the sale uf Indonesian nutmeg where a singte agency is interposed between producers and foreign buyers, thereby giving the government control of prices.

"The price jumps will continue," says a spice importer, "because the government has gotten lovolved." US importers and brokers have fought the institution of such ao agency, bringing their arguments to the Indonestan government, to no avall.

along well," says a spice broker, "but now prices witt become irrelevant to supply and

Chinese material haa subsequently been in demand and firmer at 95c. to \$1.03 per pound. "Expect Chinese material to absorb some of the Indonesiao market," speculates an lmporter, "but it will depend on the November 1 price as to how much." Imports from all points of origin have been steady, totalling 16,903,146 pounds through August, 1986, on track to match the 1985 total of 24,092,258



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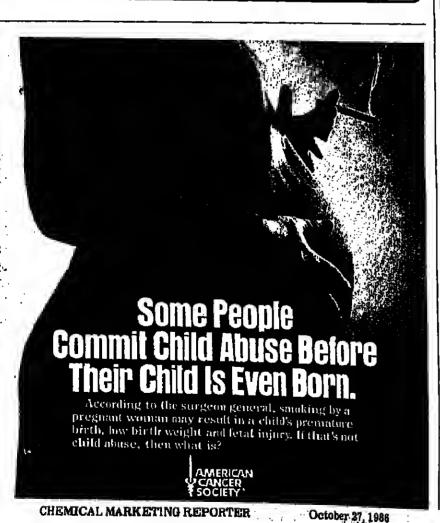
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Chemical Finance

Occidental Sets Up Anti-Takeover Defense

Occidental Petroleum Corporation, an old hund at acquiring companies - including Occidental Petroleum Corporation, an old and at acquaring companies — including Cities Service Company, lowe Beef Processors and Hooker Chemical Corporation among others — is a fraid it may eventually get a dose of its own medicine. The Ly Angelee-based diversified petroleum company has adopted a "poison pill" and takenge to the company has adopted a "poison pill" and takenge to the company has adopted a "poison pill" and takenge to the company has adopted a "poison pill" and takenge to the company has adopted a "poison pill" and takenge to the company has a company to the company to the company has a company to the measure in the form of a special stock purchase right which is exercisable only inde specified conditions Indicative of a hostile takeover attempt. A spokesman for the company sold that Occidental is not aware of any effort to acquire the company sold

Gulf Resources Bids for UK Energy Concern

Gulf Resources & Chemical Corporation, Boston, Mass, based energy and diversity concern, has made a bid of about \$1.07 billion in cash for Imperial Continental Car Association, a British energy company with large holdings in the North Sea At Car presstime, Imperial Continental had made no response to the Unsolicited bid, Asaren of the bld, Standard & Poor's Corporation, one of the New York-based debt rally agencies, placed \$100 million of the company's deht on "CreditWatch" with negative mpileations, citing the high leverage of the proposed transaction.

Marion Laboratories Has Record Sales and Earnings

Marion Leboratories, inc., Kansas City, Mo., one of the fastest growing of the health core companies, again recorded sales and earnings in the first quarter ended September 30. Fred W. Lyons, Jr., ettributed the strong results primarily to substantial sales grown of "Cardizem" (dlltiazem) and "Carafate" (sucralfate) plus increased sales in the Casumer Products Division. Net sales rose to \$125.6 million from \$88.4 million a year age. rise of 42 percent, and net earnings soared 52 percent to \$20,740,000 from \$13,867,000

Reichhold Chemicals Doubles Its Operating Income

Reichhold Chemicals, Inc. reported that its third-quarter net income rose 38 percents \$2.5 million from a year ago as operating income more then doubled to \$6.4 million (Robert Powell, chalrmen and CEO, said the results indicate growing strength in & company's product line and in its menufacturing organization.

Immunogenetics to Acquire Syosset Laboratories

ImmunoGenetice Incorporated, Vineland, N.J., has signed a letter of intentiopardus Syosset Laboratories, Inc. In Syosset, Long Island, N.Y. Syosset is a human demails cal company. Subject to the execution of a definitive agreement and approval of in monoGenetics' board of directors, the purchase is expected to be completed in November

Merck Recommendation Reaffirmed on Wall Street

Drexel Burnham Lambert, Inc. has reaffirmed its recommendation of the shares Merck & Co. Cited are Merck's dividend increase from \$1.85 to \$2.20 per share follows: an increase only nine months earlier and a stock repurchase program totaling its million through the belance of this year and into 1907. Mcrck is generating substable excess cash and therefore can more than afford both the dividend increase and the shall repurchase program, Drexel Burnlis m Lanibert stated.

GAF to Offer \$250 MM in Senior Subordinated Notes

GAF Corporation, Wayne, N.J., has filed a preliminary registration statement site SEC for the Issuance of \$250 million in scalar subordinated notes and debentures 20 will be notes due 1994 and the other half will be debentures due 2001. Net proceeds will be used for general corporate purposes and investments or in acquisitions.

Witco Will Redeem 12 Percent Senior Notes

Witco Corporation, New York-based specialty chemical and petroleum company, si redeem its 12 percent senior notes due in 1095. An early redemption premium of 65 percent will be paid on the \$32 million principal amount of noise outstanding as william Wishnick, Witco's chnimum. The realemption will be made in cash generale from operations and the disposition, previously amounted, of certain assets.

National Distillers Declares Dividends

Directors of National Distillers & Chemical Corporation, New York, have deck quarterly dividends of 55 cents per share on the common stock, \$1.0625 on the life preferred stock, 56% cents on the \$50 preferred, and 46% cents on the \$1.85 prefered.

L'Air Liquide SA Accepts Shares of Big Three

L'Air Liquide SA sold that its indirect wholly-owned subsidiary, AAL Acquision Corporation, has accepted for payment all shores of capital stock of Big Three Industry, and the local Corporation and th Incorporated, validly tendered and not withdrawn under its cash tender offer M & outstanding shares at \$29 per share.

Reynolds Metals Withdraws Stock Offering

Reynolds Metals Company, Richmond, Va., said it is withdrawing its proposed per offering of up to 2.3 million shares of common stock. Reynolds seld proceeds from proposed sele are oo longer deemed needed for the proposed venture with Peciliary becling for an sluminum plant in Becancour, Que. Instead, a portion of the proceeds the sale last week of Robertsham Control Course on will be used for that purpose. ast week of Robertshaw Cootrols Company will be used for that par

B.F. Goodrich Declares Dividends

Directors of B.F. Goodrich Company have declared divideods of 39 cents per the the common stock, \$1.9526 on the \$7.85 cumulative preferred, Series A; and 1.1555 the \$ 975 cumulative preferred, Series A; and 1.1555 the \$ 975 cumulative preferred. the \$.975 cumulative preferred, Series B.

Cytogen Boosts Revenues, Trims Its Loss

Cytogen Corporation, Princeton, N.J., trimmed ita third quarter loss to the standard primarily so a result of a new collaborative agreement with Eastman Kodal and several recently awarded grants.

CHEMICAL IMPORTS

CPI material. Listings include consignee where possible, container, net weight, name of vessel (in parenthssis), port of origin and date of shipment's arrival in New York or the Port of Newark.

US chemical imports/exports are tabulated monthly in the market reports.

(AMINO ANISOLE 3 BULFONIC ACID 10 dms (2,361 lbs) (Nepture Jede) Kobe, 9/22.
ACETOACET DIMETHOXY CHLDRANIL/DE Lonze 260

ACRYLANIOE Militens 960 bgs (55,402 ibs) (Ming Star

Kobe, 9/21. Sandoz 480 bgs (27,701 lbs) (Ming Ster) Kobe, 9/21. ACRYLIC & METHACRYLIC ACID RESIN Mobil &0 dms ACTIVATED VEOLTABLE CARBON American North 980
ACTIVATED CARBON Degussa 900 bgs (35,903 lbs)
(Koh Express) Bremerheven, 9/23.
ACTIVATED VEOLTABLE CARBON American North 980

sks (40,897 lbs) (Koin Express) Greenock, 9/23.
A0ENOSINE OIPHOSPHATE & AMINO ACI Kyowa
Hakko 109 pkg (18,031 lbs) (Louis Maersk) Kobs,

Ohloj Relierdam, 9/29. Janel Init Fwdrs 5Dlogs (4,440 lbs) (Koln Express) Hern-

burg, 9/23. Tir. Gums 40 dms (4,762 lbs) (Tohbel Meru) Negoya.

ALLSPICE E L Scott 24D bgs (26,564 lbs) (Polwind) Sto Tomas, \$/22 ALUMINA Rhone Poulanc 22 ca (48,702 lbs) (Zim Tokyo)

Sercelona, 9/21 ALBANUM OXIDE Treibacher 1.403 pkg (157.761 lbs) (Oart Allank's) Bremerheven, 9/23. ALUMINUM CHLORIDE & HYDRATE 306 dms (20,602 lbs) (Ousselfort Expres) Hamburg, 9/30. ALUMINUM DXIDE Lonza 23 ph (41,579 lbs) (Pilar) Genca 9/26.

Genoa, 9/26.
Norton 1,750 bgs (197,201 /bs) (Dueseldort Exprost Exemerhaven, 9/30.
ALUMINUM PASTE Synergistic Pigments 3D9 dims (43,918 bs) (Ousseldort Expres) Hemburg, 9/30.
ALUMINUM PASTE Synergistic Pigments 3D9 dims (43,918 bs) (Ousseldort Expres) Hemburg, 9/30.
ALUMINUM PASTE Synergistic Pigments 9/30.
ALUMINUM SILLS (Tobbet Maru) Kobe, 9/22.
ALUMINUM SILLS (Tobbet Maru) Kobe, 9/22.
ALUMINUM SILLS (Tobbet Maru) Kobe, 9/23.
ALUMINUM SILLS (Tobbet Maru) Kobe, 9/23.
ALUMINUM SILLS (Tobbet Maru) Kobe, 9/23.
ALUMINUM SILLS (Tobbet Maru) Silar) Keetung, 9/21.
Magnekron 900 bgs (45,238 bs) (Ming Silar) Koetung, 9/21.
BABASSI DII Cools 6 dept (2,248 bs) (Ming Silar) Koetung.

BABASSU DIL Croda 6 dms (2,840 lbs))American Apolio) SALSAM Corram Intl Trdg 1D done (5,463 lbs) (Salut

Louis Haina, 9/19.
SARIUM CAUMIUM STABILIZER Monson Chomicals ink (42,769 lbs) (Britta Thain) Bremerheven, 9/2D 8ENZALDEHYDE Jane) Intil Fwdie 76 dins (36,526 lbs)

Observation January Brazel Production (36,526 libs)
(Duseridar Expres) Antwerp, 9/3D.
SENZOCAINE Roussel Phennacoulicel Produ 1DD dnis
(12,015 bs) (Koin Express) Rottordom, 8/23.
SENZOQUANAMNE James E Fox 8D1 typs (44,438 lirs)
(Ever Greet) Hemburg, 9/24.
BENZYL CYANGE inter Maritimo Fividg 1 tok (42,7659)
bs) (Ever Greet) Antwerp, 8/24

This (Ever Greet) Antwerp, 9/24.

BETA HYDROXYNAPH THOIC ACID SON S Unito Find Chemical Ind 700 bgs (31,401 lbs) (Ming Siar) Kobo. 9/21.

9/21.

BETA HYDROZYNAPHTHOIC ACID BON A Ucru Fine Cherical Ind 48D bgs (20,984 fbs) (Mhry Sinr) Kobo. BETA NAPHTHOL Montedison 1,500 bys (09,594 tbs)

(Par) Genoa 9/26. BLACK PEPPER Centrobank 400 bigs (44,621 tbs) (Tocanina) Belem, 9/13.

Ourkee Foods 600 bgs (09,932 lbs) (Southorn Sky)

twig Musier 300 bgs (33,486 ths) (Southern Sky)

Serit, 9/22

80 bgs (89,242 bs) (Southern Sky) Botom, 9/22.

81 ANC FIXE POWDER N Ore & Churricat 1,400 bgs
(76,401 bs) (Tedeusz Kosclusz), Rotterdum, 9/22.

81 EPOPTY SEGO CLEANEO OUTCH Tronsit Trdg 080
82 (44,002 bs) (Brits Their) Rotterdum, 9/29.

80 BC ACIO Enchem 78 drns (28,400 bs) (8eo Land
Voyage) Rotterdam, 9/24.

Voyager Rotterdam, 9/24.

Voyager Rotterdam, 9/24.

Achem Americas 2,620 bgs (255,557 lbs) (Vishva Parkel) Leghom, 9/25.

I'th OrCAR90NATE Chemical Oynamica 4 stn (212 fbs) (American Ohio) Rotterdam, 9/28.

CADMUM PIGMENT Whittaker Clark & Oanlete 2 dma (0 28) (Alerric Cartier) Liverpool, 9/22.

Del (Alerric Cartier) Liverpool, 9/22.

Del (Ousseldorf Exprea) Greenock, 9/30.

CAFFENE ANHYDROUS K Heuser 250 dme (96,210 lbs) (Britts Thien) Rotterdam, 9/29.

1830.

By30.

ICHED MAGNESIUM OXIOE ICD Group 90 bgs (4.850 lbs) (Zim Keelung) Halfs, 9/29. CUM CARBONATE H M Royal 991 Mix (46,962 lbs)

(American Utah) Kobe, 9/29.

M Royal 2,900 Mix (147,983 lbs) (American Malne)

Kobe, 9/29.

M Royal 890 bgs (48,271 lbs) (American Meine) Kobe, 9/29.

September 1980 bgs (48,271 lbs) (American Meine) Kobe, 1923.
1880 pkg (197,104 lbs) (American Meine) (Sea Land Chook E Power Chasa Manhattan Bank 100 lbgs (1890) ORAPHITE Gunza Mew Vork 29 pkg (33,788 lbs) (May Kobe, 1921.
1881 pkg (197,104 lbs) (Minerya) Fortsleze, 1978.
1984 pkg (197,104 lbs) (Minerya) Fortsleze, 1984 (22,341 lbs) (Minerya) Fortsleze, 1985 (22,341 lbs) (Minerya) Fortsleze, 1985 (22,341 lbs) (Minerya) Fortsleze, 1986 (22,341

2 bgs (22,341 ibs) (Minerva) Fortaleza, 9/18.

CASEIN Ademba Imports 2,400 bgs (264,652 tba)
(Tadeusz Koaciuszk) Bremerhaven, 9/22.
Erie Casein 400 bgs (44,092 ibs))Tedeusz Kosciuszk)
Bremerheven, 9/22.
Norseland Foods 1,660 bgs (65,980 ibs) (Sea Land
Voyager) Sremerhaven, 9/24.
CASEINATE 0a Zaan 800 bgs (44,790 ibs) (Ever Greet)
Antwero, 9/24.

Antwerp, 9/24, ASSIA C F Geuer 221 bgs (35,556 lbs) (Hoegh Celm) Padeng, 9/24. Morris J Golombi

iwar 471 bga (67,379 lbs) (Hoegh Calm)

Pedang, 9/24, Durkee Foods 25D bgs (33,170 lbs) (Hoegh Cairn)

A A Sayla 167 bgs)22,560 lbs) (Hoogh Calm) Padang.

Dirikee Foods 1,000 bgs (134,021 lbs))Hoogh Calm) Louis Furth 337 bgs)55,946 lbst)Hoogh Cairn) Padang.

Morris J Goldmineck 214 bgs [33,541 in9] (moegii Jarn)
Padang, 9/24
510 bgs (67,262 lins) (Hoegh Carn) Padang, 9/24
210 bgs (33,598 lbs) (Hoegh Carn) Padang, 0/24
210 ogrdau 221 tigs (33,556 lbs) (Hoegh Ceirn) Padang,

Padang, 9/24. tD5 bis (22,617 lbs) (Hoegh Calm) Padang, 9/24. A A Seyla 143 bgs (22,381 lbs) (Hoegh Calm) Padang, 9/24.

Olto Gardau 240 bgs)33,592 bgs (33,639 lbs))Hoegh Otto Gardeu 240 oga jaz, osa ogs (33, osa jos) jihoegn Calm) Pedding, 9/24. Van De Vrios Trug 167 ogs (22,414 lbs) (Louis Maeisk) Singapore, 9/25. A A Sayla 333 cin (29,374 lbs) (Hoegh Ceirn) Padang.

Ludwig Muoller 143 ctn (19,267 lbs) (Hoegh Cairn) Pridang, 9/24. Morris J Golomback 419 cm (34,736 lbs) (Hoegh Celm)

Padang, 9/24. Louis Furth 126 cin (5,767 lbs) (Hoseh Calm) Padang

Fortaliza, 9/29,
5 bks (9,020,790 lbs) (Stolt Vincila) Aratu, 9/30,
1 bks (981,040 lbs) (Stolt Vincila) Santos, 9/80,
CAUSTIC GODA 1 bks (11,774,854 lbs) (Stoll Pride

CHLOHAMIPHENIOUL, LEVO 100 20 01112 (2,000 113,1).

Iar) Gnoa, 9/28.

CHOLESTEROL Selvo Sussan America 20 dme (1,323 lbs) (Louis Maarak) Kobe, 9/25,

CHROMIUM OXIOE GREEN Miceul 800 bgs (40,601 lbs)

(Naptura Jeda) Kobe, 9/22.
CIME TIOINE Novopharm 32 dms (1,927 lbs) (American Ohlo) Bermerhaven, 9/26.
CINNAMIC ALDEHV DE PERFUME GRADE Chemical Dynamics 78 dms (37,487 lbs) (Britta Thien) Rotter-

(Hoegh Celm) Colombo, 8/24. CITRAL Curto & Funk 1 dms (64 lbs) (Britta Thien) Rotter-CITRIC ACID Panalpina 2 bga (112 lbs) (American Ohlo)

(Gritta Thien) Rotterdam, 9/29. CITRUS OILS Baromello 14 dms (5,611 lbs) (Zim Tokyo)

The same of the sa

OCONUT OIL Finent Food Oistr 6 ptt (19,569 lba) (San Pedro) Heine, 9/26. 1 bks (1,102,310 ibs) (Stoll Energie) Cagayan O OR,

can Ohio) Fallxetowe, 9/28. 8chilit Food Products 3 60 bgs (47,909 lbs) (American

Ohlo) Felixstowe, 9/25.
Transit Trdg 350 bgs (47,906 lbs) (American Ohlo) Felixstowe, 9/26.
CUMIN SEEDS Gel Spice 450 bgs (54,584 lbs))Dragor Maersk) Dubai, 9/24.
Indian Groceilea & Spices 16 bgs (1,687 lbs) (Hoegh Calm) Bombay, 9/24.
V A Cordovi 450 bgs (54,594 lbs))Dragor Maersk) Dubai, 9/24.

V A Cordovi 450 bgs (54.594 lbs))Dragor Maerak)
Dubai, 9/24.

YANOACR YLATE ADHESIVE Kuehna & Nagel 413 pkg
)12,414 lbs))Naptune Jeob) Yokohama. 9/22.

YANURIC ACID Atlas Intermodal Transport 60D dms
(84,000 lbs) (Ming Star) Keetung, 8/21.

YANURIC CHLORIOE Lonza 840 dms (60,142 lbs) (Koin Express) Roterdam. 9/23.

Express) Rotterdem, 9/23.

D LiMONENE Polarome Mtg 125 pkg (51,257 lbs) (American Apolo) Santos, 9/28

DEADRINT MAGNEGITE 1 bks (11,574,256 lbs) (Clery)

Yerakini, 9/30.

CASTOR OIL DEHYDRATEO, FATTY ACID 79 dma (39,704 bs) hisps) Sentos, 9/24.

DEWHISKERED DILL BEED Morris J Golombeck 280 bgs

PAMISKERED DILL BEED MOMBJ GOIOMDECK 200 DGS 129,741 lbs) (Neplune Jade) Singaport, 9/22. Quality Spice 170 bgs (22,497 ibs) (Al Wettyah) Dubet, 9/25. Momis J Golombeck 200 bgs (26,455 lbs) (Hoegh Ceirn)

Bombey, S/24.

DEXTRINE 1,800 bgs (99,D86 lbs) (Ever Greet) Antwerp.

DEXTROSE MONDHYDRATE Ca De Candy 3,605 bgs (40,159 lbs) (Britie Thian) Rotterdam, 8/29 DIACETYL 10 dms (4,409 lbs) (Koin Express) Rotterdam, DIALLYL DIMETHYL AMMONIUM CHLDRIDE Calgon 2 Ink 172,025 lbs) (See Land Voyager) Rotterdem.

DICHLOROSILANE 13 cyl (1,944 lbs) (Britta Thieri) Roller

DICYANDIAMIDE H.P. Lamber1810 bgs (40,770 lbs) (Ever Drethyl Amburg, 9/24.

DieTHANDI AMine 77 dms (39,553 lbs))Dusseldort Expros) Antwerp, 9/30.

DIETHYL OXALATE Acelochem 79 dms (35,132 lbs) (At-

DIETHYL OXALATE Acelochem 79 drns)35,132 lbs) (At-lantic Certier) Liverpool, 8/22.

DIETHYL PHOSPHITE L Ici Consultants 74 dnns (37,522 lbs) (Tedausz koscluszk) Rotterdem, 9/22.

DILC Chese Manheitan Bank 180 bgs (8,919 lbs))Thur-mose) Ate-andria, 9/30.

DILL SEED Globe Impax 300 bgs (28,741 lbs) (Neplune

Jada) Singapore, 9/22.

DIMETHYL DISULFIDE DMDS 76 dms (36,861 lbs) (Ever

DIMETHYL SULFOXIDE 2 bks (83,370 lbs) Ever Summir

Gunmit) Fos, 9/24.

DIMETHYLPYRAZOLE Lonza 5 dms (595 lbs) (Koin Ex-

DIMETHYLPYRAZOLE Lonze 5 dms (595 lbs) (Koin Express) Bromerhaven, 9/23.

DIPENTAERYTHRITDL Hermann Ludtwig 1,260 bge
(70,000 lbs) [Ever Govern) Gusan, 9/30.

DODECYL BROMIDE Amaribrom 20 dms (9,259 lbs)
(Taedeusz Kosciuszk) Rotterdam, 9/22.

OUNDICUT CHILLIES Louis Futth 60D dms (33,334 lbs)
(Naptine, Izdal Singapore 6/32.

EPHEDRINE HCL Mwm Chelosi 40 cin (2,557 lbs) (American Melne) Hong Kong, 8/2s.

EPSDM SALT Nuodax 400 bgs (41,399 lbs) (Dussaldorf Expres) Bramerhavan, 8/30.

EPSDM SALTS Ouslichem 2.400 bgs (242,119 lbs) (Ever Greei) Hemburg, 8/24.

ETHYL ALCOHOL Joseph E Sesiam 2 tok (72,564 lbs) (Sea Land Voyager) Rotterdam, 8/24.

ETHYL ALUMINUM OICHLORIDE Sherex Chamicals 1 tok (32,716 lbs) (Koin Express) Hemburg, 9/29.

ETHYL BROMDACETATE Amenbrom 43 dms (9,006 lbs) (Zim Tokyo) Halls, 8/21.

(Zim Tokyo) Haits, 9/21. THYL GUTYRATE Bubai 9 dms (494 lbs) (Dart Atlantice

Felixelowe, 9/23. THYL ISOVALERATE 5 dms (2,161 fbs) (Dart Atlantica) Felixstowe, 9/23. ETHYLHEXANDL 2 tixa (2.204,382 fbs) (Glephanie) Roi-

terdem, 9/27. EUCALYPTUS OIL E L Scott 76 dms (35,389 lbs) (Pile/ Cadiz, 9/26.
ATTY ACID Leyden Customs Expenditers 1,800 bgs

(90.093 (bs) (Ever Great) Antwerp, 9/24.
ENNEL SEEDS A A Sayle 220 bgs (22.0 bgs (24.251 lbs) (Thulmose) Alexandria, 9/30.
Biharal Gazaar 16 bge (893 (bs) (Hoegh Cairn) Gombey, 2004.

Wirsh 400 bgs (44,092 lbs) (Thutmose) Alexandria, 8/30. Cuality Spice 240 bgs (26,466 lbs) (Thutmose) Alexan-Cuality Spice 240 pgs (20,400 los) (I numose) Asexandria, 9/30,
Van Da Vries Trdg 100 bgs (11,029 lbs) (Thutmose)
Alexandria, 9/30.
K & M Custom Brokers 1 bks (3,403,212 lbs) (Sandra
Farber) Tarragons, 9/21.
FERROAMMONIUM CITRATE George Uha 426 dries
//44 486 lbs) (Fuer Gracet Hamburg, 9/24)

FERHOLMMONIUM CITHATE George Une 426 drus
(48,186 lbs) (Ever Greet) Hamburg, 9/24.
FISH OIL Oueflity Foods Oils 84 pkg (38,420 lbs) (Britta
Thien) Hamburg, 9/29.
FLUOROCARBON POLYMER Nichtmen 22 dms (2,619
lbs) (Loxia Merrsk) Kobe, 9/25.
84 drus (9,799 lbs) (Torbell Maru) Tokyo, 9/22.
Viding See Freight 160 drus (0 bs) (Torbell Maru) Tokyo,
9/22.

Rotterdam, 9/28.

GERANIUM OIL George Uha 8 dms (1,019 fbs) (Zim Keetung) Garcelons, 9/29.

GERANYL ACETATE Curto & Funk 13 dms (6,990 lbs)

GERANYL ACETATE Curto & Funk 13 dma (6,890 lbs)
(Britta Thian) Rotterdam, 9/29.

GINGER PASTE Nishimoto Trdg 3 otn (46 lbs) (Ming Star)
Yokohama, 9/21.

GINGER PASTE Nishimoto Trdg 3 otn (46 lbs) (Ming Star)
Yokohama, 9/21.

GINGER PASTE Nishimoto Trdg 3 otn (46 lbs) (Ming Star)
Yokohama, 9/21.

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Yokohama, 9/21.

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Yokohama, 9/21.

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Yokohama, 9/21.

GINGER PASTE Nishimoto Trdg 3 otn (46 lbs) (Ming Star)
Yokohama, 9/21.

GINGER PASTE Nishimoto Trdg 3 otn (46 lbs) (Ming Star)
Yokohama, 9/21.

MELAMINE MOULDING COMPOUNO 8
No. (Zim Keetung) Haifa, 9/29.

820 bga (45, 194 lbs) (Zim Tokyo) Haifa, 8/29.

820 bga (45, 194 lbs) (Zim Tokyo) Haifa, 8/29.

820 bga (45, 194 lbs) (Zim Tokyo) Haifa, 8/29.

MENTHOL CRYSTRALS BRASWEY BRASWE

GREEK OREGANO Quality Spice 651 bgs (11,023 lbs) (Zim Tokyo) Pireaus, 9/21. GUAR GUM A E Pellai 682 bgs (44,760 lbs) (Al Waityah)

Celenesa 1,44D bgs (60,000 lbs) (Al Wattyah) Oubal, 8/25.

Premcem Gums 60D bgs (40,230 lbs) (Al Wattyah) Oubel, 9/25. Tic Gums 937 bgs (42,496 lbs) (Al Wattyah) Oubel,

9/1 9. GUM TURPENTINE Pim 2 con)79, 277 lbs) (Gacol Santos)

Santos, 9/24. HEPTANE 1 bks (1.683,406 lbs) (Sandra Farber) Terragone, 9/21. HEXYLENE GLYCOL Icc Ind 76 dms (34,736 lbs) (MI-

NDIAN CELERY SEED Alleri Brothers 255 bge (33.731

Morris J Golombeck 255 bgs (33,731 lbs) (At attyah) Dubal, 9/25.
Attart Brothers 425 bgs (56,217 lbs) (At Wattyah) Dubal, 8/25.
\$/25.

IRDN SULPATE 5 0x5 (250 to5),000 5 139,573 lbs1 burg, 8/30
ISDPHTHALIC ACID Adeu Chomical 700 bgs (39,573 lbs1 (Evor Summit) Gonos, 9/24.
Ashland Chomical 2D libg (40,795 lbs) (Ever Summit)

Star) Kobe, 9/21.
LEAO CARBONATE PIGMENT Gebr Hirdgs 36 col (2,507 lbs) (Ever Greel) Hamburg, 9/24.
LEMONOIL Ungerer 10 dms (4,101 lbs) (American Apolio) 6antos, 3/26.
LEMONGRAS6 DIL Fritzache Dodge & Olcott 25 dma

Thien) Rotterdam, 9/29.

LIME OIL DIGTILLED 50 dms (22,419 lbs) (Polwind) Vera Cruz, 9/22, LINALOOL 160 dms (67,746 lbs) (Mine Star) Yokohame, 9/21.

1,400 bis (76,334 ibs) (Hanjin Long Beach) Busan, 9/26.
MARJORAM A A Sayis 240 bgs (13,228 ibs) (Thurmose)
Alexandris, 9/30.
Chasa Manhattan Gank 1,125 bgs (49,604 ibs) (Thurmose)
Mose Alexandris, 9/30.
Ludwig Mueller 200 bghs (11,023 ibs) (Thurmose) Alexandris, 9/30.
Mireh 500 bcs 500 co. 200

Mireh 500 bgs (22,046 lbs) (Thulmoea) Alexandria, 9/ Miren ouu ogs (22,0-70 2-5), 1900 30.

MELAMINE MOULDING COMPOUNO 820 bgs (46,194, bs) (Zim Keetung) Haifa, 9/29.

820 bga (45,194 bs) (Zim Tokyo) Haifa, 9/21.

MENTHOL CRYSTAL & Sarcom 20 dms (2,403 bs) (American Apolio) Santos, 8/26.

MENTHOL CHYSTALS Sarcom 20 dma (2,403 lbs) (American Apolic) Santos, 8/26.

MENTHOL CRYSTRALS BRASWEY BRAND American Shipp 100 dma (11,019 lbs) (Santa Catarina) Paranagua, 9/24.

METHOXYCITRONELLAL Curto & Punk 1 dma (428 lbs) (Gritta Thien) Rotterdam, 9/29.

Continued on Page 56

US imports of chemicals and related materials are reported in this section by

Padang, 9/24

Padang, 9/24.
240 bgs (33.698 ibs) (Hoegh Cairn) Padang, 8/24.
Osernhouwer 1,380 bgs (190,213 ibs) (Hoegh Cairn) AGAR AGAR At Transport 20 dms (2,425 lbs) (American

Osernhouwer 1,360 bgs (190,213 lbs) (Hoegh Calm)
Padang, 9/24.
Ludwig Mueller 160 bgs (22,389 lbs) (Hoegh Calm)
Padang, 9/24.
490 bgs (67,190 lbs) (Hoegh Calm) Padang, 9/24.
240 bgs (33,599 lbs) (Hoegh Calm) Padang, 9/24.
Dnit 250 bgs (33,620 lbs) (Hoegh Calm) Padang, 9/24.
Dnit Gardau 334 bgs (44,829 lbs) (Hoegh Calm)
Padang, 9/24.

Padang, 5/24. Gol Spico 190 bgs (22,125 lbs) (Hoegh Ceirn) Padang.

Morris J Golomback 214 bgs (33,541 lbs) (Hoegli Carn)

Rue Fwdg 160 bys)22,39S lbst)Hoogh Colm) Padano. Van De Vries Trdo 364 bgs (49,304 lbs) (Hoegh Calm)

uwar 46 ctn (2,551 lbs) (Hoagh Calm) Padang, Louis Furth 125 ctn (5,640 lbs) (Hoegh Cairn) Pedang. 9/24

Padang, 0/24 117 bdi (11,291 lbs) (Hoegh Cairn) Padang, 0/24. Otlo Gerdau 200 cin (11,506 lbs) (Hoegh Cairn)

ABTOR OIL Lating Trdg 1 bks (2,050,276 lbs) (Miner

Antwerp, 9/29.
Antwerp, 9/29.
Fraderick Henjes 1 bks (9,112,719 fbs) (Sekura Cob) L
Avers, 9/29.
CETVL GROMIDE Ameribrom 60 dms (29,101 ibe)
(Tedeusz Koscluszk) Rotterdem, 9/22.
CHLORACETAMIOE 195 Mkx (16,316 ibs) (Koin Exprese)

Bramethaven, 9/23. CHLORAMPHENICOL, LEVO)oo 20 dms (2,359 lbs) (PI

dam, 9/29. CINNAMIN QUILLS Max Van Pels 160 ble (15,385 lbs)

Bremertieven, 9/28.
782 bga (81,482 (bs) (Ever Greet) Antwerp, 8/24.
CITRONELLA OIL 90 dnie (34,921 fbs) (American Maine)
Hong Kong, 9/23.
CITRONELLOL Outro & Funk 10 dms (4,277 fbs) (Britte
Thien) Rotterdam, 9/29.
CITRONELLYL ACETATE Curio & Funk 1 dms (439 fbs)

CITRUE OILS BETOMERO IN this (0.01)
Helfe, 8/21.
CLOVE LEAF OIL Chem Fisuf 80 dms (39,977 lbs) (Ever Govern) Bingapore, 8/30.
CLOVE OIL 1 dms (479 lbs) (Minerva) Rio D Janeir, 9/16.
CLOVES Prudent Trdg 100 bgs (11,088 ks) (tape) Sentos, 8/24,
Milaubishimi 1,184 dms (658,190 lbs) (Dart Atlantica)

9/10.

1 bka (5.401.919 lba) (61oti Energie) tilgan, 9/10.

12,187,141 lba) (SDtoff Energie) tilgan, 9/10.

12,187,141 lba) (SDtoff Energie) tilgan, 9/10.

COPPER 9ULFATE Unimodal 96 dma 114,330 lba) (Oarl Atlantice) Falixatowe, 9/23.

CORIANDERS Louis Furth 360 bga (47,973 lbs) (American Ohiol Falixatowa, 9/29.

o/zz. Celanese Weter Boluble Polym 2,160 bgs (120,001 ibs) (Al Watiyah) Dubal, 9/26. Harria Brown 900 bgs (40,565 lbs) (Hoegh Cairn) Som-

Tragacanth imports 900 bgs (40,741 lbs) (Piler) Genoa,

9/26.
Colony Imports & Exports 6D0 bgs (40,916 lbs) (Al Wettysh) Dubal, 9/25.
GUM ARABIC Colloides Naturels 36D bgs (40,477 lbs) (Sea Land Voyager) Roterdam, 9/24.
Roberto Bucot 2,00D bgs)223,766 lbs) (Streihconon) Rotterdam, 9/25.
GUM KARAYA Block Drug 470 bgs (90,149 lbs) (Al Wettysh) Dubal, 9/26.
Colony Imports & Exports 198 bgs (99,230 lbs) (Al Wettysh) Dubal, 9/25.
GUM ROSIN Pdm 69 dms (39,246 lbs) (Minerve) Santos, 9/19.

HEXYLENE GLYCOL &cc Ind 76 dms (34.736 lbs) (Minerve) Santos, 9/19.
HIDE GLUE Trensatiantic by Products 4DD bgs (39.86D lbs) (American Apollo) Rio Grd Do B, 9/26.
HYDRDDUINDNE TECHNICAL Mitsui 200 dms (21.791 lbs) (Ming Star) Kobe, 9/21.
HYORDXYCITRDNELLAL Curto & Funk 1D dms (4.497 lbs) (Brilte Thien) Rotterdem, 9/29.

lbs) (Al Wallyeh) Dubal, 9/25.

McCorinck 197 bgs (24,324 lbs) (Al Wattyah) Dubal, 8/25

S/25.

McCormick 260 hgs (33,069 lbs))Al Wetlyeh) Dubal.
9/25.
INDIAN DILL SEEDS Van Do Vitas Trdg 170 bgs (22,112 lbs))Al Wetlyeh) Dubel, S/25.
INDIAN GUM KARAYA Celanose 320 bgs (36,291 lbs) (Al Watlyeh) Dubel, 9/25.

Watiyah) Dubal, 9/25.
Colony Imports & Exports 212 bgs (38.232 lbs) (Al Wetiyah) Dubal, 9/25.
IRON BLUE PIGMENT Deinichtsolka Color & Charric 1.200 bgs (92,152 lbs)) Ming Star) Yokuhanna, 9/21 IRDN OXIDE Digo Thermit 34 dms (39.752 lbs) (Ever Dreat) Antwork, 9/24
IRDN SULFATE 5 bxs (236 lbs)) Dusanidor/ Express Hemburg, 8/20

Ashland Chomical 2D hibg)4D,795 libs) (Ever Summit)
Leghora, 9/24
ISOPROPANYL PESTICIDE LIDUID Heno Jobman 17
dms (0lbs) (American Maina) Jedosh, 9/23.
ISOPROPYL ALCDHDL 1 bis (1,293,4D1 lbs))Bandia
Farber) Tarregons, 9/21.
1 biss (2,943,937 lbs) (Stoll Vincita) Campene, 9/30.
ISDTRIDECYL ALCOHDL 1 biss (1,1D2,256 lbs) (Stolt Vincita) Gentos, 9/30.
JAMAICA PIMENTD LEAF DIL 5 pkg (2,68D lbs) (San Padro) Hains, 9/26.

JAMAICA PIMENTD LEAF DIL 5 pkg (2,680 lbs) (Saa Pedro) Haine, 9/26.
L-EPHEDRINE Genes Chemicals 4D ctn (2,557 lbs) (American Utah) Hong Kong, 9/29.
LACTIC ACID G F Expeditora 70 dma (39,043 lbs) (Minerva) Rio D Janeir, 9/16.
LACTIC CASEIN New Zealend Mrik Products 2,400 bgs (134,392 lbs) (Columbus Austrell) Wellington, 9/19.
LAKE RED C AM INE B GRAOE Universal Transcontinental 400 bgs (23,633 lbs) (Ming Star) Kobe, 9/21.
LAUREL LEAVES John H Elton 15 bla (2,313 lbs) (Pilar) Valencia, 9/26.
LEAO ACETATE JM Rodgers 320 dma (36,901 lbs (Ming Star) Kobe, 9/21.

(1),011 lbs) (Saint Louie) Hoine, 9/19.
LIDOCAINE HCL Astra Westobor 38 dma (9,726 lbs) (Allantic Cartier) Gothanburg, 9/22.
LILESTRALIS Curto & Funk 20 dms (9,215 lbs) (Gritte

MAGNES(UM GROM(OE 6 HYDRATE PURE Creacent Chemicals 1 bx (29 lbe) (Dusseldorf Expres) Hamburg, 9/30.

MAGNESIUM OXIDE GRANULAR Rouasel Pharmaceutical Produ 662 dma (78.610 lbs) (Ming Star) Kobe, 9/21.

MAGNESIUM 6ULFATE ANHYDROUS Potash Import & Chemical 800 bgs (80,686 lbs) (Koin Express) Bremarhaven, 9/23.

MALAYSIAN BLACK PEPPER East West Intil Trdg 210 bga (36,068 lbs) (Ever Govern) Singapore, 9/30.

Ludwig Musiter 560 bgs (88,164 lbs) (Ever Govern) Gingapore, 9/30.

MALEIC ANHYDROE Fleet Sing Lines 700 bga (39,187 lbs) (Hanjin Long Beach) Busan, 9/26.

1,400 bla (78,334 lbs) (Hanjin Long Beach) Busan, 9/26.

MARJORAM A'A Savia 240 bgs (132,81 lbs) (The transport of the second secon

Maril Harry Are Mary 1.

CHEMICAL PRICES

WEEK ENDING OCTOBER 24, 1988

This chamical prices section contains spot quotations and/or list prices of auppliare of chemicals and related materials on a New York or other indicated basis. The listings are based on price information obtains of from auppliers. Nots that posted prices do not necassarily represent lavels at which transactions actually may have occurred. They do not represent bid and asked prices, nor a range of prices over the week. Price ranges may represent quotations of different suppliers as well as differences in quantity, quality and location. All different suppliars aa well as diffsrences in qu msttars under this heading are fully covared by

An indax of weekly chamical market rep

Α		
712163 6204,21116111111111111111111111111111111111	25.00	27.00
Acetaidehydo, 99%, tanks, frt. alid. Ib. Prices 1c. higher in West. Acetaminophen (see N-Acetyl-p-sminophe	.37 noi)	-
Acetaniide, tech, flaked, bgs, i.l., f.o.b. works	1.29 ,25	-
Acetic anhydride, tanks, divd. E tb. Acetic anhydride prices to higher in We Acetoscelanlide, dms., I I., d vd tb.	.43½ st. 1.29	_
Acetoscal-o-enisidide, dms., t.i., dwdb.	2.70	-
Acetoscet-o-chiorosnilide, dms., f.f., dvd,b. Acetoscet-o-foluldide, dms., t.l.,	2.85	-
Acetoscel-m-xviidide, dms., t.l.,	1.68 3.83	_
divd	.25 .27	= '
ing Celf.)	27 .53	- .54½
Acetophenetidin (see Phenacetin). Acetophenene, tech., fanks, i.o.b.	.76	.85
periume grade, extra, cns lb. N-A celvi-n-aminophenol c i t 1	2.15	-
works	5.95	6.84
100%, 25-lb. bgs., same be-	.96 .951⁄2	-
Acetylene tetrabromide, tanks, f.o.b. works	.97	-
works ib. Acetylselcylic acid, USP (see Aspirin). Acetyltributyl citrate, bulk, i.o.b. works ib.	1.28	_
works	2.06	_
Acrolein, tech., tanks, works fb. Acrylamide, solid, Li. works fb. solin, 160% basis tanks, works fb.	.82 1.00 .74	- .77
Acrylic scid, gleoisi, reg., tanke, dvd	.87 .60	-
Acrylonitale-butaclene-styrene realn, high-impact, nat., t.i., dms.,	.391/2	.451/2
divdib. medium-impact, nat., same basis ib. low-impact, nat., same basisib.	1.09 1.05 .98	1.12 1.08 1.01
Adipic acid, resin grade, bulk, hopper cars, frt. equald	.67	-
bge., I.J., c.l. fri. equald	.59 9.50	9.85
Alcohol, syn. C-8 to C-10, tanks, f.o.b. works. C-12 to C-13, tanks, dvd. b.	.38 .57	 .59
C-14 to C-15, tanks, divd lb. C-19 to C-18, tanks, divd lb. Aldehyds, C-6, dms lb.	.57 .60	Ξ
C-7, cms	4.10 1.95 4.30	5.70 6.30
C-10 dms	4.30	5.35
Alkali blue prices 1c. higher W. of	3.72	8. 83
Rockles. Altspics Gualemaisn / Hondursn, bgs	.97	_
Allyt elcohol, tanks, f.o.b., Raynort	1.05	-
Tex. b. Allyl bromide, 500-kilo drus. 2,000 lbs. or more, works. b.	6.50	-
Allyl caproste, 25-lb. cns	3.90 .65 5.40	4.50 9.90
Almond oil, artif., bitter (see Benzaldehy Almond oil, ne i. bitter, NF f.f.p.a. bots	3.50	3.60
sweet	1.24 2.00	1.50
Curacao, kgs	2.25 2.60 3.00	2.76
Aloin, NF, dms	5.00 35.00	8.70
c.i., 1., works	66.00	Ξ
f.f., works 100 by. FCC powd. liber drns., works. 100 bs.	35.00 85.00	-

quantity, quality and I	ocation	ı. All	Ammonium bichromets, photo-tho	20.00	
by copyright.			grada, gran. 100-lb. dms., i.i.i.	2.00	_
ol achluigur		_ 1	worksb. Ammonium bifluoride, bgs., i.i.,	2.00	-
		— I	Works	.70	-
ports is on the back o	Co yer.		Ammorium bromide, dom, NF, gran.,		
			dms., o.l., t.l., l.o.b. worke . lb.	1.31	-
			Ammortum chlorida, white, tech.,		
			fine gran., bga., o.l., works100bs.	18.00	-
a, activated, gran., 100-lb. bgs.,	821.00	_	USP, gran., dms	.40	.53
40,000-lb, min.cJ., works.ton ned, bulk, same besiston	354.00	_	Ammonium citrete, dibasic, 250-ib.	0.70	I '
0-lb. bgs., same bests ton	380.00	-	dms. f.o.b. workslb.	2.78	-
ated, whits, bulk, same ba-			Ammonium dimolybdate, approx. 85%, 24,000 bs. or more .lb.	5.48	_
siston	190.00	-	Ammonium fluoborale, tech., dms.,		
Olb, bgs., same basis ton um acatate, basic, dms., I.o.l.,	224.00	-	cl., f.L., works, frt. equekl lb.	1.79	-
workslb.	3.25	-	Ammonium haptamolybdate, cryst.,		
rm chloride, anhyd., soln., 500-			dms., 24,000 lbs. f.c.b. workslb.	5.57	_
600 lb. dms., c.L. t.L. worke.	60		Ammorhum lauryl suffate, tanks, t.o.b.	01	
frt. equald	.63 .48	-	works	.28	.32
same basis	.52		Ammonium lignin, sulfonste, bulk,	70.00	
um chloride, comi., soin., 32°			f.o.b. Hogulam, Ora ton	72.00	-
tanks, works 100 lbs.	16.00	-	Ammonium nii rata, dom., fertiizar grade, 33.5% N, bulk, B.E.		
ms., c.i., works 100 bs. ret. dms., same basis . 100 bs.	12.00	-	dvdton	130.00	135.00
um formete, dibesio, lo 6%	20.00	-	Ammonum oxalets, tech., fine. gran.		
um formete, dibealo, liq. 8% Al ₂ O ₃ tl., worksfb.	.55	-	300-lb. dms., t.l., f.o.b.	4.40	4.00
um nyoral e (686 Alumina, nyorata			Ammonium centehorete gran has	1.42	1.88
um hydroxide, dried, gel, NF,		9 50	Ammonium pentaborste gran. bgs., c.l., worksb.	.76	-
76-lb. dma., c.l., t.l., works. lb. um metal, 991/2% or more, 50-lb.	2.76	3.50	Ammonium pentaborata powder 20c.		
pigs., 80,000-lb. lots, fri.			per lb, higher.		
elici	.78	-	Ammonium persuitais, 225-tb. dms,		
um oxide amorphous (556 Alumin	a, calcined) .	24,000 lbs. or more, f.o.b. works	.58	_
num peste, leeling grade,			56-ib. bgs., same bests ib.	.5672	-
ald Uning, 2,400 lb. lots, divdlb.	1.40	_	Ammonium phosphate (see Di- and me		dum phos-
g, extra-fine, same beats lb .	1.98	2.14	phates).		
um phenolaulfonate, ourif., 100-			Ammonium atticoffuoride, dms. c.l., t.l.,	000	
kilo dins., I.I	9.48	-	Ammontum sulfale, ku oran, bulk, o t	.304	-
um powder, leafing grade, etd. lining, 2,400 lb, lots, divd lb.	3.17	_	Ammonium suifets, ig. gran., bulk, o.t., works	60.00	90.00
ining, 2,400 lb. lots, divd lb. a fine, lining, same basis lb.	4.04	-	std., coml., bulk, f.o.b. works ton	80.00	70.00
um skearate, Dgs., O.L.,, ID.	1.25	1.37	tech., bga., c.l., t.l., works ton	108.00	120.00
um sulfate, comi, and 100 lb			Ammonum suifide, Ilq., 40-44% tenks,	490.00	
bgs., c.l., works, frt. equald., basis 17% Al ₂ O ₃ East and Guif			100% basis, frt. equald ton. Ammonium eulfacyanide, tech. (see Amm	480.00	Cyanata'
COESTSton	205.00	_	Ammonum thiocyanata, tech., cryst.,	- Aprillation (CA)	ora miej.
West Cogsi ton	220.80	-	bgs., c.l., works	1.02	_
tanks, N.E. same basis ton	145.00	-	tech coin., 50%, tenks, fri.		
free, dry, bgs., c.i. same basis ton	300.00	_	Ammonium thiosulfete, photographic,	.93	-
tanks, same basis ton	225.00	285,00	tu%, tanks, t.o.b, works h.	.13	-
num sulfate, USP, gran., dms. lb.		.337	Ammorlum zirconyl carbonate, soln.,	.10	-
acetic acid, USP, dms., 20,000	645		bufk	.72	-
bs., f.o.b. worksb.	2.12 1.89	-	Amyl acetata, primary mixed isomera,		
nobenzoic acid, 1,000 kilos or	1.88	-	Amyl alcohol, primary mixed isomers,	.57	-
more, drns., f.o.b, works , kilo	9.60	10.10	tanks, frt, alki,	.4812	_
no-4-chlorophenol dry and and			Amyl dryramic eldehyde, drys lb.	2.36	2.50
14,000 lbs. or more, frt. alid. lb. bethyl ethanolamine, fanks, frt.	5.79	-	p-tert-Amylphenol, bulk, works	.91	1.03
COMBCI.	1 3314		Amyris of, dms	11.00	-
noethyl piperazine, tanks, f.o.b., frt. collect			1 USP, dms	10.20 3.65	4.60
In. Colectb.	1.05	-	Angaica root oil, botsklio	700.00	00
ine-2-sthyl-1,3-propsnediol dms.,t.l. t.o.b. worksfb.			Anaine, tenke, t.o.bb.	.33	.351/2
	1.82	~	Aniseoli, dmsklio	8.90	-
		جست			
	$\overline{}$				

b. worksb.	.89	-	Arvsic o'dohydo, cns., dms	1.00	
enol, dins., f.o.b. Chancille, C	3.95	-	c-Anaidine, Imp., dms., dlvd. In	4.80 2.27	
henol. I.I. dms., 1.0.0.	7.15	_	p-Aniekline, imp., cast solid, dms., works	1.90	
delgh, N.C			flakes, same basis	225	
ns., I.I	18.50	-	C.L. ITL BIG	1.70	
148, CIVO. MICIWESI LEITTI-	185.00	170.00	Antimony fluoborate, liq. conc., 175-b, dms., t.l., workeb.	3.02	
ars, f.o.b. Gulf Cossi ton	90.00	85.00	Antimony metal. bufk, c.l., mines ib. Antimony oxide, high-tini, bgs., c.l., frt.	1.35	
29.4% NH., EDITYO, DESIS.			eud. E. of Rockies b.	1.35	
nke, frt. equald. E. of Rock-	260.00	315.00	Antimony trichlorido, snhyd., solid, dms., tl. worksb.	_	
al Iquor (see Ammonia, aqueo sai, galvanizing grade, bgs.,	ue).		Apomorphino hydrochlonde, NF, bols.,	3.50	
to h works 100009	28.60	-	Apricot kernel oli, dms	15.00 2.05	
eal, white (see Ammonium chi biborate, gran., dms., o.l.	SHOE COL	II.J-	Arabic gum, powd., bbis	1.85	
rks	.80	-	USP 07808	2.00 8.75	
n bicarbonaia, 300-lb. fib.			Arometic petroleum eolvents (see petroleum, aromatic).	Solveni	Ą
ns., c.l., works 100 lbs	29.00 26.00	-	Arsenic, crude (see Arsenious Irloxide). Arylid, red (see Napithol, arylid red).		
n bichromete, photo-rino	_00		Arsenious trioxide, 89%, bulk, o.L.		
ede, gran. 100-lb. dms., I.I.L. orks lb.	2.00	_	f.o.b. warehouseib. Asbestine (see Talc, fibrous).	42	
m bifluoride, bgs., I.I.,			Ascorbic ecid, USP, 100 kilos.		
orka	.70	-	Ash, black (see Barium euifide).	9.00	
ns., o.l., t.l., l.o.b. worke . lb.	1.31	-	Asphalt glisonite, (see Gilsonite). Asphalt petroleum cutback, tanke, E.		
e gran., bga., o.l.,	46.65		Coasigai.	.86	
orks 100/bs. an., dms	18.00	.53	emulsion, tanke, tenkwagons, E. Coast	.68	
n citrete, dibasic, 260-ib.			steam-refined, 40-300 penetration, lanks, lankwegonton	170.00	
ms.f.o.b. worksib. m dimolybdate, epprox.	2.78	-	steep roofing grade, bulk tankwag-		
%, 24,000 bs. or more .lb.	5.48	-	Aspirin, USP, crys1., powd., 250-	175.00	
n fluoborale, tech., dms., ,, f.L., works, frt. equekl lb.	1.79	-	ID.OMS., C.L., T.O.D ID.	1.95	
n haptamolyodate, cryst., ns., 24,000 lbs. f.o.b.			10% starch granulation, white, 250- lb. dm, c.l., f.o.b lb.	1.97	
rkslb.	5.57	-	16% starch granulation, white, same basis	280	
n lauryl suffate, tanks, t.o.b. oxksb.	.28	.32	Freight equald, shipt, identical quantity	OVER BIM	
n lignin, sullonste, bulk,	79.00		from N.Y., Phile., Midland, Mi Louie.	cn., Unic	9
n niirata, dom., fertiizar	72.00	-	Atropine sulfsts, USP, bots oz. Avocado cil, dms	10.00	
ade, 33.5% N, bulk, B.E.	130.00	135.00	Azelaic scid, tech., 50-lb. bgs., I.I., c.l.,		
n oxalats, tech., fine. gran.	100.00	100.00	Azo orange, bbis., divd	1.23 4.50	
XX-lb. dms., t.l., f.o.b.	1.42	1.88	Azo yellow, 10 G, bgs., dlvd. E. of	4.40	
n pentaborste gran. bgs.,			Azo G yellow pigment, bgs., same ba-		
m pentaborata powdar 20c.	.75	_	Sisb.	2.45	
erib, higher. In persuitais, 225-ib. dins,					
1,000 lbs. or more, f.o.b.					
orks	.58 .667	2 -			
n phosphate (see DI- and n	Oncemn	onlum phos-			
nates). m allicofluoride, dms. c.l., t.l.,					_
orkalb. n sulfeta, ig. gran., bulk, o.t.,	.30%	4 -	Becitrecin, USP, non-sterile, one billon	8 20	
orks lon	60.00	90.00	units or mors milion units Barbital, NF, 50-kilo dms., dvd kilo	8.30 22.50	
mi., bulk, f.o.b. works ton ya., c.i., t.i., works ton	80.00 108.00	70.00 120.00	Berbitsi-sodium, NF, 50-kilo dms.	23.00	
n suifide, liq., 40-44% tenks,		0.00	Berlie, dry-grd., Southarn, oil-color,		
00% basia, frt. equald ton. n eulfecyanide, tech. (see Am	480.00 monium t	hlocyanate).	coarse, bgs., c.L, t.o.b. mines ib. ws.ler-ord., white, bgs., c.L,	.09	
n thiocyanata, tech., cryst., gs., c.l., works	1.02		f.o.b. works	.13	
soin., 50%, tanks, fri.			unbleached, extre-fine, pigment grads, c.l., f.o.b., works Ion	180.00	
quaid.,ib. m thiosulfete, photographic,	.93	-	Barlum carbonate, precip., bulk, o.l.,	.25	
0%, tanks, f.o.b. works lb.	.13	-	works, frt. equaldlb. bge., same basislb.	.26	Ų.
m zirconyl carbonata, soln., ufk	.72	_	photo grado, bgs., same basis ton Berlum chloreto, 100-ib. dms., 1-10	610.00	
ats, primary mixed isomers,			dm, lots, works	1.04	
inks, divd	.67	-	Barlum chloride, lech., cryst., bgs., c.L., workston	470.00	
anks, frt. alkd lb. amic aldehyde, dms lb.	2.36	2.50	anhyd. drums c.l., eeme besis, ton	590.00	
ylphenol, bulk, workslb.,	91	1.03	Bartum chloride, puril., cyret. 400-lb.	3.78	1
dmslb. tech., dmekbo	11.00 10.20	-	Barium monohydrate, 55-lb. bgs., o.l., f.l. l.o.b. works 100 lbs.	48.00	
ms	3.65	4.60	octahydrato, crvsl., pos., suite	33.00	
nke, t.o.b	700.00	.351/2	Berium nitreto, 100-lb. bgs. I.L.,		
drnskl/o	8.90	-	works100 lbs.	32.60	
					_
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				1	
				1.0	

THE TERMINOLOGY OF THE CHEMICAL MARKETPLACE

AOAC/Association of Official Agricultural Chemists ap-a-jevs liable phosphotos old approx.japproximately artif.fartificial ASTM/American Society for Testing & Materials	c.i.i/cost insuran frieght c.i./cartoad cna./cana comi./commercia conc./concentral conc./concentral copichemically pu cpe./centpolsas cryst./crystalline ca./casas cts./casass cts./cartons cyis./crylinders
bfoets Be/Esume bols/berreis b.g./beta-gemme bgs./bege bis/beles bots/bottles b.p./bolling point b.p./bone phosphate of lime b.s./bottles bss./bottles bss./bottles	d-(dextro dbl./double denst./densture destdist./destra tresty distilled didextro-leavo dist./distilled dist./distilled dist./distilled dist./distilled dist./distilled dist./distilled dist./distilled dist./distilled dist./distilled dist./distilled dist./distilled

	cps./cent/pols:	12	-
	oryst./crystallir	10	
	CS./CSSSS		
	cina./cartons		
	cyls./cylinders		
	alieria interesta		
		٠.	
	d-/dextro		
	dbl/double		
	denat./denatus		
	door offer the	ed .	
	destclist./des	TUO-	
	tively distille	d.	
	didextro-leen	9 .	
•	dist./distilled		
	dietr./dietribut		
-	divd./delivered		
	dms./drume		
	dom /domesti		
•	Annual Applications		1

AL MARKETPLACE				
E/Easi e-p./end point equald./equalizad	incl./included indust./industrie			
exp./expressed extr./extracted	kgs./kegs			
F./Febrenheit f.e.s./free elongside	i-/isero ib./pound i.e.i/iese cerio:			
forment./fermentation	Lt./less truckie Hq./liquid			
1.1.o./free from chlorine 1.1.p.s./free from prus- sleecid fib./fiber	m-/meta m.a.p./mixed ar point			
f.o.b./free on board f.p./freezing point frt./freight	mcg./mlarograd mira./mapufaci min./minimum molt./molten			
g-/gamma	m.p./melting po			
gal/gallon Q-p./general purpose gran/granular grd/ground	N/nitrogen n-/normal nat./natural			
I la material a sur	nout./neutral			

E/Eesi e.p./end point equald./equalizad exp./expressad exir./exiramed	inci./included indust./industriel kgs./kegs 1-/isevo	o-/ortho ord./ordinary oz./ounce P/phosphorus	secs./seconds sp.g./specific grant ship t/shipment soin./solution std./standard
F./Fekrenheit I.a.a./iree elongalde I.a.a./iree elongalde I.a.a./iree fatty acid I.f.a./iree fatty acid I.f.a./iree from chlorine I.L.p/iree from prue- sleacid fib./fiber I.o.h./iree on board I.p./ireezing point Irt./ireight	ib./pound i.e.i/less cericed i.e.i/less truckload iq./liquid rn./meta rn.e.p./mixed aniline point rog_/miorogram rira./manufacturers rini./minimum	p-/pars Pac./Pacific pl./proof phos./phosphate photo/photographic pkgs./packages powd./powdered prod./precipitated prod./producer pl./peint pulv./pulverized putf./putfied	banks/reikroed teské tech_/technical tech_/technical tel_/tertiscy Ll_fruckloed tos/refers to shortk of 2,000 pounds TVA/temporary with tary allowance Lw_fankwagons
g-/gamma gal./gallon g-/general purpose gran./granular grd./ground	moit./moiten m.p./meiting point N/nkregen n-/normal nat./natural	redet, redictilled refd, refined refy, refinery resub, resublimed ref, returnable	Phermacopals Vis. Viscosity Vis. Premish salt a painters
I.b.p/mittet boiling point imp.f/mported	neut/neutral NF/Netional Formulary No./number Nom./nominal	8D/specially densitired a.d./single distilled 8E/Sputheast sec./secondary	Wine warehouse wine warehouse w.w./water wine

Barlum oxide, grd., dms., c.t.			1
mind	31.25 30.00	Ξ	
Barium peroxide, 700-tb. dms., c.l., 1.t., works.	.30	-	- 1
Barium ataarats, buik, t.l., f.o.b. dest	1.05	-	- 1:
Bartun suitete, USP, X-ray disgnosie grede, powd., 25 kilo bge.,	one iixej.		- 1'
10,000 kilotots	.589	ż –	1
works ton	460.00	.92	E
French ID.	.88 65.00	.90	
Rettery acid, £1, £0 b., works 1001	62.00 52.00	70.75	
Bandie, calcined, refrectory grade, 87%-88% ALOs, Battimore &			6
Mobilemetric-tan Say of, NF, 50-55%, dms	229.28 11.00		-
Beeswax, reld., blesched white,	2.70	3.00	B
white, slabs, 100-lb, ctne lb.	3.10 3.05	3.20 3.10	
yellow, bricks, 100-lb. oins lb. yellow, siabs, 100-lb. cins lb.	3.00 2.95	3.10 3.05	В
Senionite, dom., c.l. bage, f.o.b. works	43.50	-	1
Benzaldernyde, NF, dms.,	1.25 .73	.83	В
the Rockies. Benzene, Indust. or nitration, barges, f.o.	h		U-
Balon Rouge, Lagal. 8sylown, Texgal.	.85 .85	-	n-
Beaumont, Tex	.85 .85	Ξ	se te
Chicago district gal. Chocolele Bayou, Tex gal.	.85 .85	Ξ	В
Clairton, Pa	.85 .85	=	В
Deer Park, Tex	.85 .83	.84	Bu Bu
I Ima. SAMI mai	95		n-E
Wood Fiver, IIIgal. Benzene hexachloride, 99% gamma Ison Benzidne orange, powd., bge.,divd.tb.	er (see Lir 4.90	ndane).	Bu
iq. containers, divd ib. Servidne yellow, AAA, bge., divd ib.	3.38 5.80	8.70 3.89	n-E
AACIA POID MINI	7.35	8.05 7.40	
AAOT, bas, divd	5.95	8.20	t
Benzodnydropyrone, dma ib. Benzoic acid, tech. bos., c.l., LL, t.o.b.	12.50	11.50	Bu
use cryst, dms, tontols same ba-	.55	-58	But
Senzon gum. Sumatra ca	t.73 1.80	1.75	But
PRIVATION N F 1 MM INC.		2.00	p-te But
mere, f.o.b. b. 8F_1,000 kilos or more, f.o.b. kg. isch, 1,000 kilos or more, f.o.b	3.50 7.45	3.80	But
works kgs. 2.2. Senzolhlazyl disulfide (see Mercapii fide).	4.35	_ -	But
Beruchiazole, flake, dms., 1,000 fbs.	ODenzonie	izyi disut-	But
powd das 1,000 the or more	8.10	-	te
Dicto-crarie done 1 000 has	8.20	-	But
Benzotrichioride, relid. close 11 4-2	8.90	-	Buly
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10,000-b lois or more bee	4	.,,	Buty
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works ton 647.	.00		Celcife

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	Borsx, tsch., grsn., dscahydrsfe, 99/2% bgs., ct., works ton bulk c1, works	237.00		Cal
	tech., pentahydrata gran prisa	192.00	-	Cal
	bulk.cl works ton	285.00		
		220.00	-	
	Bork acid, tech., gran., 99.9%, bgs., cl., works	814.00		
	Boron trichloride, CP, 1.800-lb, cyte	589.00	Ξ	
		3.80	_	Cak
	works	4.03		Cat
	Boron Iritiucride, etherete 500 ib.	3.47	_	
	dme., t.l., t.o.b., works, fb. phenoiste, 500-lb. dms., t.l., same	2.85	_	Cald
		1.85	_	PI
	bulk, 45,000-lb, min, works	.87	-	
	purif., i.i., divd	.75	.341	Calc
	tc per-lb. higher. Bulk t.t. price	ripped W	. of Rockis 272cper- l	s, h
	higher for 15 000 as -1	4c. to	54cper-l	b.
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	Butadiens, tanks, f.o.b. b. 1.4-Butanadiol, tanks, f.o.b., fri.	1.12 .12 ₁₄	.13	
	equalo	.80		br
	Butene-1, tenks, t.o.b. worke	.88	20	Calc
	n-Butyl acretate, syn., tanks, frt. stkl.lb.	.6214	.28	45
1	" Duly award, ayn., laman) tente	.88	-	Cato
	int. elid ib. sec-Butyl alcohol, syn., tanks, divd. ib.	.34	-	Calc
			_	
- 1	Butyl sideltyde (see Butyraldehyde)	.70	-	Calc
- 1	ald straight printing the lanks, trt.	.59	_	Calci
1	Butyl cycloheyul phtheirte table	.89	1.00	Calc
١	divd	.74	-	Calci
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- 1	n-Butyl lactate tanks to h works the	.35 1.58	-	Catci
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1	divd ib	14.75	_	Calci
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1	Butyrolacione, lanka, i.o.b. plantb. n-Butyronlinia, dms., c.l., divdib.	1.20	-	
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	Cadmium chloride, purif. cryst., 100-lb. dris., I.I., workslb. cadmium, CP, red, dark shade, bbte., 100-lb. lots, frt. slkd., E. of Rockles	3.73	18.35	Calcium Calcium Calcium Calcium Calcium
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	cadmium chloride, purif. cryst., 100-lb. dris., I.I., works lb. cadmium, CP, red. dark shade, bbte., 100-lb. tots, frt. skd., E. of Rockles lb. light shade, bbte., same basis . lb. medium-light shade, bbte., same beels	3.73 1.33 9.18 0.69	12.08	Calcium Calcium Calcium Calcium Calome Camphi
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0 0	cadmium chloride, purif. cryst., 100-lb. dris., I.I., works	3.73 1.33 9.18 0.69 0.28	12.06 15.20 14.60	triba: Calclun Calclun Calclun Calciun Calciun Calmph Camph Camph Camph Camph Camph Syn., n Campho white, spec.
0 0	Cadmium chloride, purif. cryst., 100-lb. dris., I.I., works	3.73 1.33 9.18 0.69 0.26	12.06 15.20 14.60	triba: Calciun Calciun Calciun Calciun Calciun Camphi Camph Camph Camph Cyn., r Campho white, spec. Canaoge Canaoge Canaoge Canaoge Canaoge Canaoge Canaoge
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- C C C C C C C C	Cadmium chloride, purif. cryst., 100-lb. dris., I.I., works	3.73 1.33 9.18 0.69 0.28 3.10 2.27 3.22	12.08 15.20 14.60 7.07	triba: Calcium Calcium Calcium Calcium Calcium Campho Campho Campho Syn., r Campho white, spec., Canange Candaffo refd, p Capric sk Capric sk
- C C C C C C C C	Cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte., 100-lb. lots, frt. skd., E. of Rockles ib. if the children shade, bbte., same basis ib. if medium-light shade, bbts., same beels ib. if medium-light shade, bbts., same beels ib. id. cadmium, CP yellow, sil ehade, bbts., same beels ib. id. cadmium, CP yellow, sil ehade, bbts., the children liboborate, frt. conc., dme., 100-lb. lots, frt. alid., E. of Rockles ib. id. sadmium-mercury lithopone, meroon shade, bbts., frt. alid. E. of Rockles ib. id. cadmium metal ingois or sticks, ton lots, cs., divd ib. 1 admium nitrate, putif., flake 400-lb. chis., cl., t.I., f.o.b. ship. pt.ib. 2 acidmium-seisnide-lithopone, orange,	3.73 1.33 9.18 0.69 0.28 3.10 2.27 3.22	12.08 15.20 14.60 7.07	triba: Calcium Calcium Calcium Calcium Calcium Camphi Camphi Camphi Syn., n Campho white, spec.; Cananga Candellin refd.; Capric si Capric si Capric si
0 0 0 0 0	Cadmium chloride, purif. cryst., 100-lb. dris., I.I., works	3.73 1.33 9.18 9.069 1.28 3.10 2.27 3.22 4.60 2.20	12.06 15.20 14.50 7.07 	triba: Calcium Calcium Calcium Calcium Camphi Camphi Camphi Oamphi USI syn., r Campho write, spec., Canange Candello reid, p Caprio se tanka Caprio se Caproleci
- C C C C C C C	cadmium chloride, purif. cryst., 100-lb. dris., I.I., works lb. cadmium, CP, red, dark shade, bbte., 100-lb. tots, frt. sikd., E. of Rockles lb. light shade, bbte., same basis lb. irredium shade, bbte., same basis. lb. irredium-light shade, bbts., same besis lb. irredium-light shade, bbts., same besis lb. irredium-light shade, bbts., same basis lb. irredium-light shade, bbts., same basis lb. irredium-marcury lithopone, meroon shade, bbts., irt. sikd. E. of Rockles lb. irredium-marcury lithopone, meroon shade, bbts., irt. sikd. E. of Rockles lb. irredium-marcury lithopone, meroon shade, bbts., irt. sikd. E. of Rockles lb. irredium-selenide-lithopone, orange, light shade, bbts., 400-lb. lots. irt. sid. E. of Rockles lb. irredium-selenide-lithopone, orange, light shade, bbts., same basis lb. irredium-selenide-lithopone, orange, light shade, bbts., same basis lb. irredium-selenide-lithopone, orange, light shade, bbts., same basis lb. irredium-selenide-lithopone, ared, dark	3.73 1.33 9.18 0.69 0.28 3.10 2.27 3.22 4.60 .10	12.06 15.20 14.50 7.07 - 1.50 - 4.00	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camph Camp
	Cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte., 100-lb. lots, frt. sild., E. of Rockies ib. if the shade, bbte., same basis ib. if the shade, bbte., same basis ib. medium-light shade, bbts., same bests ib. if the shade, bbts., same bests ib. if the shade, bbts., same bests ib. if the shade, bbts., same basis ib. if the shade, bbts., frt. sild., E. of Rockies ib. ib. if the shade, bbts., frt. sild. E. of Rockies ib. ib. if the shade, bbts., frt. sild. E. of Rockies ib. if the shade, bbts., frt. sild. E. of Rockies ib. if the shade, bbts., frt. sild. E. of Rockies ib. if the shade, bbts., frt. sild. E. of Rockies ib. if the shade, bbts., frt. sild. E. of Rockies ib. if the shade, bbts., same basis. if the shade, bbts., same basis. ib. id. if the shade, bbts., same basis ib. ideep shade, bbts., same basis ib. id. imium-selentide lithopone, red, dark shade, bbts., same basis ib. id. imium-selentide lithopone, red, dark shade, bbts., same basis ib. id.	3.73 1.33 9.18 9.18 9.069 1.26 3.10 2.27 3.22 4.60 2.0 1.10	12.06 15.20 14.50 7.07 	Caprolaci Caprolaci Carpolaci Camph Caprolaci Capr
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	cadmium chloride, purif. cryst., 100-lb. dris., I.I., works	3.73 1.33 9.18 0.69 0.26 3.10 2.27 1.22 1.60 1.10	12.06 15.20 14.50 7.07 1.50 - 4.00 4.50 9.80 9.80	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camph Camph Camph Camph Syn. n Campho white, spec. Cananga Candaft refd. p Capric sc tanks Capric sc t
	cadmium chloride, purif. cryst., 100-lb. dris., I.I., works	3.73 1.33 9.18 0.69 0.26 3.10 2.27 1.22 1.60 1.10	12.06 15.20 14.50 7.07 - 1.50 - 4.00 4.50 9.80	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camph Camph Camph Syn. n Campho white, spec. Cananga Candelli refd. p Capric sc tanks Capric sc Capric sc Capric sc tanks Capric sc tanks Capric sc tanks Capric sc Capric sc Capric sc tanks Capric s
C C C C C	Cadmium chloride, purif. cryst., 100-lb. dris., I.I., works lb. ladmium, CP, red, dark shade, bbte. 100-lb. lots, frt. skd., E. of Rockles lb. light shade, bbte., same basis lb. medium-light shade, bbte., same basis lb. medium-light shade, bbts., same besis lb. ld. lots, frt. skd., E. of Rockles lb. sdmium, CP yellow, all shades, bbts., same basis lb. sdmium fluoborate, frt. cousid lb. medium-light shade, bbts., same basis lb. sdmium-marcury lithopone, meroon shade, bbts., frt. skd. E. of Rockles lb. demium metal ingols or sticks, ton lots, cs., divd lb. sdmium-selsnide-lithopone, orange, light shade, bbts., frt. skd. E. of Rockles lb. desp shade, bots., same basis lb. drimtum-selsnide-lithopone, orange, light shade, bbts., same basis lb. drimtum-selsnide-lithopone, red, dark shade, bbts., same basis lb. medium light shade, bbts., same basis lb. medium shade, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. shades, bbts., same basis lb. filmtum-selsnide lithopone, red, dark shades, bbts., same basis lb. shades	3.73 1.33 9.18 9.18 9.069 1.26 3.10 2.27 3.22 3.60 2.00 1.10	12.06 15.20 14.50 7.07 1.50 4.00 4.50 9.80 5.30	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camph Camph Camph Camph Camph Camph Camph Camph Canno Cananga Candella refo. p Capric sk C
C C C C C C C C C C C C C C C C C C C	cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte, 100-lb. lots, frt. slid., E. of Rockies ib. ight shade, bbte, same basis. ib. medium-light shade, bbts, same be- els ib. cadmium, CP yellow, all chades, bbts, camium, CP yellow, all chades, bbts, camium, CP yellow, all chades, bbts, camium fluoborate, itq. conc., dme, t.I., works, frt. equaki ib. medium-light shade, bbts, same ba- sis ib. cadmium-mercury lithopone, meroon shade, bbts., frt. slid. E. of Rockies ib. cadmium metal ingole or sticks, ton lots, cs., divd ib. cadmium relation of relicks, ton lots, cs., divd ib. cadmium selentide-lithopone, orange, light shade, bbts., same basis ib. drep shade, bbts., same	3.73 1.33 9.18 0.69 0.26 3.10 2.27 1.22 1.60 1.10 1.97 1.77 1.77 1.77 1.77 1.77 1.77 1.77	12.06 15.20 14.50 7.07 	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camph Camph Camph Syn. n Campho white, spec. Canange Candelli refd. p Capric sc tanita Capric sc tanita Capric sc tanita Capric sc tanita Capric sc Ca
C C C C C C C C C C C C C C C C C C C	cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte, 100-lb. lots, frt. slid., E. of Rockies ib. ight shade, bbte, same basis. ib. medium-light shade, bbts, same be- els ib. cadmium, CP yellow, all chades, bbts, camium, CP yellow, all chades, bbts, camium, CP yellow, all chades, bbts, camium fluoborate, itq. conc., dme, t.I., works, frt. equaki ib. medium-light shade, bbts, same ba- sis ib. cadmium-mercury lithopone, meroon shade, bbts., frt. slid. E. of Rockies ib. cadmium metal ingole or sticks, ton lots, cs., divd ib. cadmium relation of relicks, ton lots, cs., divd ib. cadmium selentide-lithopone, orange, light shade, bbts., same basis ib. drep shade, bbts., same	3.73 1.33 9.18 0.69 0.26 3.10 2.27 1.22 1.50 2.77 2.77 2.77 2.77 2.77 2.77 2.77 2.7	12.06 15.20 14.50 7.07 	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camph Camph Camph Camph Camph Camph Cannot C
Ca C	cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte., 100-lb. lots, frt. skd., E. of Rockles ib. if the shade, bbte., same basis ib. medium-light shade, bbte., same basis ib. imedium-light shade, bbts., same beels ib. id. id., E. of Rockles ib. id., E. of Rockle	3.73 1.33 9.18 9.18 9.069 0.26 3.10 2.27 3.22 4.60 2.00 1.10	12.06 15.20 14.50 7.07 1.50 1.50 1.76 1.76	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camph Camph Camph Camph Syn., r Campho write, speo. Canange Candata refd, p Caprical refer, p Caprical refd, p Caprical
Ca C	cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte., 100-lb. lots, frt. skd., E. of Rockles ib. if the shade, bbte., same basis ib. medium-light shade, bbte., same basis ib. imedium-light shade, bbts., same beels ib. id. id., E. of Rockles ib. id., E. of Rockle	3.73 1.33 9.18 9.18 9.069 0.26 3.10 2.27 3.22 4.60 2.00 1.10	12.06 15.20 14.50 7.07 1.50 1.50 1.50 1.60	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Campho Campho Campho Syn., r Campho white, spec., Canange Candello refd, p Capric sk Capri
Ca C	cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte., 100-lb. lots, frt. skd., E. of Rockles ib. if the shade, bbte., same basis ib. medium-light shade, bbte., same basis ib. imedium-light shade, bbts., same beels ib. id. id., E. of Rockles ib. id., E. of Rockle	3.73 1.33 9.18 9.18 9.069 0.26 3.10 2.27 3.22 4.60 2.00 1.10	12.06 15.20 14.50 7.07 1.50 1.50 1.60 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.7	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camphi Camphi Camphi Camphi Syn., r. Cannotaci Cananga Candella Caprolaci Carawaya Caprolaci Carawaya Caprolaci Carawaya Caprolaci Carawaya Caprolaci Carawaya
Ca C	cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte., 100-lb. lots, frt. skd., E. of Rockles ib. if the shade, bbte., same basis ib. medium-light shade, bbte., same basis ib. imedium-light shade, bbts., same beels ib. id. id., E. of Rockles ib. id., E. of Rockle	3.73 1.33 9.18 9.18 9.069 0.26 3.10 2.27 3.22 4.60 2.00 1.10	12.06 15.20 14.50 7.07 1.50 1.50 1.60 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.7	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Calcium Campho Campho Campho Syn. n Campho white, spec. Caprices tenta. Caprices tenta
Ca C	Cadmium chloride, purif. cryst., 100- ib. dris., I.I., works ib. cadmium, CP, red, dark shade, bbte., 100-lb. tots, frt. skd., E. of Rockles ib. light shade, bbte., same basis., ib. medium-light shade, bbts., same beels ib. damium, CP yellow, sil ehade, bbte., 100-lb. tots, frt. skd., E. of Rockles ib. same in the beels ib. deep shade, bbts., same beels ib. deep shade, bbts., same beels ib. ich shade, bbts., same beels ib. shade, bbts., same beels ib. medium shade, bbts., same beels ib. ilight shade, bbts., same beels ib. medium shade, bbts., same beels ib. ilight shade, bbts., same beels ib.	3.73 1.33 9.18 9.18 9.069 0.26 3.10 2.27 3.22 4.60 2.00 1.10	12.06 15.20 14.50 7.07 1.50 1.50 1.60 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.7	Calcium Calcium Calcium Calcium Calcium Calcium Calcium Calcium Camphi Camphi Camphi Camphi Syn., r. Cannotaci Cananga Candella Caprolaci Carawaya Caprolaci Carawaya Caprolaci Carawaya Caprolaci Carawaya Caprolaci Carawaya

	Calcium carbide, std., generator size,			-					
	Calcium carbonate, pulverized 335	402.00	_						
	works Dulk, Lo.b.						11	rı	
	Blurries, 54% solids, same basis ton	46.00	-		IVI	EM	П		
	/ 279 SOIGS, SAME has in ton	97.00 109.27	100.00						
	quecking, gran , Ind., bulk, work-	100.93					:6		
	works.		- -		IIFN	ICE		•	
	Catcium carbonata, precip., bgs., cl.,t.t., ton	.083	0 .160	0					
	Carbonete precin medium	385.00	445.00		WEEK EA	NDING OC	Γ. 2	4. 198	 6
	bgs., c.l., works ton precip. danse. bgs., c.l., surisce	110.00	150.00			ow structure, but			<u> </u>
	ultraitne, USP, has	265.00	-		WOKE.	(8	III-	.24	
	Calcium chloride, conc., reg. grade. 77-	217.00	225.00		l intermedisti	8-840 <i>81-8</i> hre		.270	
i.	I OUTE, HEKS, DAIR OF					rka		.25 .28	
	100-lb. bgs. c/ enmo	153.00	-		works.	on (SAF), bulk,	. C.t.,	.31	_
	anhyd., 94-97%, fiske or nellet bulk	196.00	-		semi-reintord	no (BRF), huk	lb.	.408	60 -
	C.I., same basis ton 80-lb. bgs., o.I., sams basis ton	217.00	_		bas., c.l., w	rka	lb.	.21(.240	
	brining grade, 80-lb. bags ton Calcium chloride, liq., 100 percent ba-	279.00 285.00	Ξ		C.L. worl	rennal, medium, ks.	bga.	.30	
	ANN. OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPER	99.75	-		bulk, c.l. worke Carbon black oil		II.	.32	.30 .34
	Caldum chlorids, USP, oran, 225.h	118.00	-		IN NETHER .	refineries	hhlo	10.50	12.50
	dms., t.l., frt. equald b. Calcium citrate, punif., 200-lb, dms.,	.90	-		Carbon disulfide, Carbon tetrachio			10.50 420,00	12.50
	10,000 lbs. or more, l.o.b. works							.36	_
	Caracin Dyangmide, Indust show	3.82	-		TEPIK TRANSING	., t.l., 1rt. alld ort (min. 4,000 s	rale t	.31	-
	Calcium gluconsta LISP power 11	400.00 t.60	450.00		Carboxymethyl o	ellulone (con CM	ſb.	.24	-
	1.000-lh lots works	10.50	19.05		Cardamoms, dec	r. bots	∴lb.	60.00 3.00	-
	Calcium hypochlorite, 100-fb. dms., truckloads ship.1. E. of Rock-	10.00	13.25		Carmine, No. 40.	MF. bulk 1004h	.lb.	6.25	8.75
	les 100bs. Calcium hypophosphits, dms., bulk.	92.40	-		Carnauba wax. P	awasmahvba No. 1	· lb.	135.00	140.00
	I SUU KIIOS OF MOFS Lillo	13.75	14.50		10W.D09.	ton lots	lh.	1.85	2.05
	Calcium lodate, FCC dms., t.o.b.	5.50	_					1.75	1.80
	works	23.85	-			No. 2, refined, b		1.55	1.85
	Calcium lactate, NF, powd., pentahy- drate, dms., 24,000 lbs. or	20.03	25.55		Camauba wax, N	ed, bgs., ton lots No. 3, relined, b). 3, . lb	1.t 0	-
	more, t.o.b works to	2.00	_					t.30	1.45
	NF, gran., trihydrats, same basis. ib. special gran., dried grade, same ba-	2.t0	-		mech. 20	C DELID Higher	100		
	Calcium naphthenate, liq . 4° a Ca. c.l .	2.80	-		D-Carolana, in yeg suspensi	9818151804,5emi-9	an ite		
	d-Calcium pantotherate USP 100	85	-		per gram b-Carotane lic	i., 33 lbs. or more.	. lb.	32.75	-
Ì	500-kilo lots kilo di-Csioum pantothensie, tsed grade.	11 50	t2.50		240.000	A units per gram. ore.	27	10.74	
	1.0 b. trl. 9lld , 250 kilos or				D-CBIO(eng, dry. (068d9, 10%, 167, er gram 50-lb, co	በበበ	40.75	-
I	more kllo di-Calcium pantothenate, calcium chio-	8.00	8.50		U-CBIVONS, 254h.	ding. svn	lh.	28 85 48 00	Ξ
I	grams per lb., t.o.b., trt. alid.,				I-Carvons Cascara sagrade	DRIK DINK	ль.	7.00 1.00	7.25 -
l	500 lbs or more lb. Csicium phosphete, dibesic, fasd	2.75	-	-	Casein, imp., sc mseh, A	Nustration, edil	ble.		
I	grade, 18/2% P. bulk, c1, I.I.	000.00		1	Australian.	is c.l.t. Indust., sems ba	막다	1.45	-
l	Csiciumphosphate, dibasic, dihydrate, USP, bgs , c.l., t.t., works, frt.	228.00	-	1	Cassella scid, 303	mol wt., dms.,	. lb. <i>f</i> rt.	1.365	-
I	90u8ld 100lbs	62.50	_		Casalo oil, Chinese	6 basis	lb.	3.70 18.50	-
l	anhyd., USP, same basis 100 bs. dentifice grade, same basis 80 bs.	71.75 48.90	Ξ		"B" bos	ogs	lb.	1.05	1.10
l	Calcium phosphets, monobasic, monohydrate, tood grads,			I	Castor off, raw, No. USP 5-8 dms	I. Braz. Ianks	lh	.31 .74	.95 .33
l	bgs., c.l., t.l., works, trt.	60.50		l	retd. deod., 5-9 d blown, 5-9 dms.	mg	lh.	.78	=
l	ennyd., tood grade, same be-		_		dehydrated, body dehydrated, unbo	ed lanks i	h	.75 .74	Ξ
l	tribasic, NF precip., bgs., c.t., frt.	54.95	•	ŀ	- PUCOT OU, ECICIS CIEI	TVOIDE DATES OF	ь	.65 1.10	Ξ
	Carcium propioniste, dms., 2,000 lbs.	82.50	-	ŀ	ricinoleic acid Castor pomace, bg	S. CONTAINER Inc	d	.791/2	.83
	ormore Lo.b. Irt. alid ib. Calcium stilcats, hydrated, bgs., c.l.,	.50	.65	ŀ	wastosenui viet" Cus	1. Fig to	b.	54.00 18.00	35.00
	works	.07 #te}.	-	1	Brechot, CP, 45-1	dlo dme., 50-23	le a	11.00	-
	f.o.b. works	8 60		L	RPC1., DOS., I.I., 886	me basiski		7.83 3.71	-
(Samphor, monobromets d. dms	hene).		ľ	eustic potash (see austic sode (see Sc	Maine up Color			
	kgs	3. 63	3.70	č	edarleef oil, dms edarwood oil, Texa	S. CIMIS. COS. II	•	17.50 1.75	2.50
		1.80	-	C	edrol, prime dms.).	4.75 5.25	
		2.36	-	č	elery seed. Indian. I	omsk	3.	4.25 .49	5.30
,	ib. lots or more	3.60	-]	•	Sulcee acelais.	nowd box	. 3	7.00	-
•	white dms	1.65 2.00	2		illulose acetate b	ulvrate, powd		1.30	_
Q	anangs oil, Indonesian drus kilo 17	2.66 7.50	2.85		I/76 OUTON (YORKANI Jame II		1.76	1.7
	reid, pure, bos	.90 2.10			divd. E 18% butryl content, 50% butryl content, 55% butryl content,			1.59	
C	adnoacia, comil blins, ding Ih	.60	.66 .66		5% butryl content, luiose gum, pure,			1.81 1.83	_
C	tanka b. epric sidehyde (aldehyde C-10) dms., cns, b. 3		5.35		1.0.h. Honew	is of more works	٠		
C	sprotactant monomer, make, ogs., t.L.	.87	:	1	itti XOVV Or imedilik	m vist hos of		1.60	1.70
•	moten, tanks, same bests	.85	-	Ca		eO _z , 60 lbs lb.		1.80 1.35	1.90
	1.0.0, WORKSb.	35	- '	~	fum hydroxide 90 works 7% CeO ₃ , dms., w	PS [:0/]. (1996)		5.40	
Č		731/2	·	Ca	fun oxide, optical ib. lots or mor	grade, bgs., 50-		4.20	1.60
))(psicum dieoresin, Ni-, Irom dom.,						, i 1	1.85 .88%	1.90 1.27
	pepper, dms	00		č	nu (aca caldanii Ca	roonate)		.25	4.50
,	500,000 numbers th	00 18		. 6	CVDlian, whole		4	.94	3.00
à	1,000,000 pungericy	00 25		"b	ue. Hungarlan	Syptian 10.	545	, UU	- No.
	gyptien, bge	58 50	62 .	Che	nopodium oil, NP,	ms b.	16	AA.	
1	FEF), bulk, c.l., worke	2125	. 8	描	es (see Pepper, rec randic activitation). lach des	13		1.
0		425		44	ago acid, dry, bbia 68 (see Pepper, rei varidic acilydride, works, winated paraffin, bulk, dwd., Zoi 50% chlorine, sem	40 % attack	1.1	. 30	7
.,	bgs at works	1075 1376	29	5	bulk divd. Zo	rie 1	1	4	4614
•	works, B. bgs. at works, b. bgs. at works, b. gh atracks (HAF), high structure, b. bgs. 61, works, b. bgs. 6	300			50% chlorine, sam 60% chlorine, sam 70%; chlorine, re bos: o.l., dwr	e basis in		469	4714 4814
١.	DOS OF WORKS		4 4	::	boss oil must	7000, 00-10		100	70.1

CHEMICAL
PRICES

ALIPIALI			iuring point
PRICES	.		roofing, 140–155, Federal specifica-
PRICES			tton RP-381 Type 1, bulk workston 350.00 - Cobelincetate, dms. 1J. frt. ald lb. 3.61 4.25
		{	Cobali carbonate, powd., dma., frt. ald lb. 3.61 4.25 Cobali carbonate, powd., dma., frt. ald 9.61 8.19
WEEK ENDING OCT. 24	, 1986		Cobalt chloride, dms. 5,000 lbs. or more, ft. squald lb. 4.16
Chlorinated paraffin, Zone 2 prices are Zone 3 prices are 2c per lb. high	1o. per fb. er and t.L.	. higher and drum prices	Cobalt hydrate, chms., 13., frt. alid ib. 9.20 10.65 Cobalt metal, 99.5-99.9%, 250-kilo.
are 5g per lb. higher Chlorinated rubber, 5, 10, 20 cps., bgs,			dms., f.o.b. NY, Chicago lb. 11.70 - Coball naphthanels, liq., 6% Co.,
t.i., clvdib. 40 cps, bgs., t.i., clvdib.	1.66 1.92	Ξ	dris, divd
125 cps., bgs., t.l., divdb. 300 cps., bgs., t.l., divdb. Chiorine, tanks single units works,	2.60 2.75	Ξ	Co
f.o.b., frt. equald ton Chioroscetic scid, mono, high purity,	195.00	200.00	Cobait phosphate powd. 32.1% Co ib. 9.78 - Cobait phosphate powd. 32.1% Co., dms. divd ib. 1.36 -
fiske, 99% bufk f.o.b. worksb.	.56	_	dms., divd lb. 1.36
2-Chioro-4-aminotoluene, tech., #q., dms., c.l., 1.l., f.o.b. works . ib.	1.88	-	Cobalt sulfate, cryst., bgs., 10,000 lbe. or more, frt. sid. E lb. 2.81 3.54
o-Chloroanline, liquid, dma., c.L, I.o.b. worksb.	1.63 1.55	-	monohydrate, dms., frt. elid ib. 4.58 B.02 Cobatt tallate, 6% Co., dms., divd lb. 2.19 -
p-Chloroeniine, solid, c.l., 1.l., f.o.b. lb. fiske, dms., c.l., same basis lb.	1.70	=	Cociliana bark, bls
o-Chlorobanzaidahyda, dma., i.i., works	2.45	-	Coconut oil (See Oils, Fata & Waxes market report.). Coconut oil solds, distilled, f.c
p-Chlorobenzaldehyde, dms., 2,000 lbs. or more, workslb.	3.94	3.85	1.o.b
o-Chlorobenzolo sold, dms. LU wks fb. p-Chlorobenzolo sold, dms., 500-fb.	3.90	0.05	Cod oil, f.o.b., Gloucester, Mass., bulkgal. 9.50 - Codelnealkaloid, NF, 25-kilo lots, kilo. 900.00 -
lots or more, works lb. Chloroform, tech, tanks, distr, divd lb. tech., consumers, tanks, divd lb.	1.69 .34½ .34½	2.25	Codeine phosphate, USP, cris., 25-kto lots kilo 940.00 -
NF tanks, min., consumer, 4,000 cals.divd	.351/2	_	Codeina suifeis, NF cns., 25-kilo lotskilo 775.00 -
2-Chlore-4-nitroenline, peste, com- modily beels, dms., 1.1.,			Codilver oll, NF, clms
f.o.b	3.06 3.15	Ξ	Copalbaoil, cris., dms ib. 3.76 - Copper acetate, monohydrate, cryst.,
4-Chloro-2-nitroanline, pasis, 172.6 mol. wt., commodity basis, dms., Li., 1.o.b	2.25	_	tech., dms., t.l., works lb71 .74 Copper bromide, (cupric) 200-lb. dms., 100 000 lbs. resulter con-
powd.,same basis	2.70	Ξ	100,000-libsper-year con- tracts, workslb. 1.34 - Copper osrbonete, 55% Cu, derk,
equaldb. p-Chlorophanol, dma., o.l., frt.	2.00	2.40	dense, 50-ib. bge., c.l., t.l., works 100 fbe. 108.30 -
equaldib. Chloroploris, comt., 1,500-ib. cyls., t.l.,	1.25	1.70	ligh1, flufty, 50 lb. bags, c.l., f.l., works 100 lbs. 109.30 -
Chtorosulfonic actd, lenka, frt.	1.26	-	Copper chloride (cupric), enhyd., c.l., works
p-Chiorotoluane, tech., lenka,	.181/2	_	Gopper cyanide, tech. dms., 24,000- lb. lots or more b. 2.30 2.82
workslb. Cholecalciferol, dry. 40,000,000 unite por gram, kilo lotsgm.	1.00 24.00	_	Copper fluoborate, (cupric), liq. conc., dms., t.l., worke, frt.
Choline bitartrate, cryst., 98% min., 50	24.00		equald
kilo dms , f.o.b. 6pringfield, Mokilo. Cholina chloride, feed grede, 70%	9.90	-	Com., trt. equals
aqueous, t.c., t.f., divd. E of Rockles	.28	-	Copper nephthenate, Iq., 9% Cu., dms., frt. alld lb. 1.19 -
90% dry supplement, lb. Choline chloride, 60% dry supplement, bulk hopper cars lb.	.39	-	Copper nitrate (cupric), purif., flake, dms., 1.1., works
bgs., 50,000 lbs. min lb. Choline chloride, pharmaceutical, 50	.39 .40	Ξ	Copper cleete, solid, 6% Cu. dins., works frt slidib87 -
kilo, lois, f.o.b. Springfield, Mokilo.	5.00	_	Copper oxide, black (cupric), dine., 90,000-lb. lots, worksb. 1.21
Choine dhydrogen citrate, 98% min., 50 kilo lots, I.o.b. Springfield,			1, (AA), 90,000-lb. lote,
Chrome green, CP extra light, hos	5.00	-	works
dvd. E. of Rockles lb. light, bgs., same basis lb. medium, bgs., same basis lb.	1.68 t.70 1.72	Ξ	amuston, t.l., dvdb. 2.52 - Copper sulfate, cryst., pentshydrate,
extredeep, CP., same basis	1.74	=	99% bge., c.l., f.o.b. worke
Chrome yellow CP bbis, divd. E. of	.83	.69	CP, pentahydrate, cryst., drns., l.c.l.,
Rockies	1.09	1.19	monohydrated, 35% Cu, dma., c.l., works
frt. squald	1.18 1.25	Ξ	besic, bgs., o.l., works 100 bs. 88.90 Corlander oil, USP, drns b. 32.00 34.00
500-2,000-lb. lots, works lb. Chromium fluoride, dms., f.l.,	.10	-	Corrol (See Oils, Fats 6 Waxes market report).
Chromium nitrate, das t l. t o.b ib	.81 1.45	_	Comot, crude, roots (spapstock), 95%
10% metal soin., 500-b. dms. same basis	.74	.98	tanksb50
bgs., c.l	5.50 1.90	2.00	Corn syrup 48 Se., lanks, f.o.b.
Cinnamic sidehyde, cns., dms , tb. Cinnamic sicohol, 25-tb. cns th.	1.85 4.50	2.00 2.45	Officene acetate, USP, dms., 5 kace
Cinnamon, H2	1.05 105.00	1.10 110.00	Cottoneed oil (See Oils, Fats & Waxes market report.)
Citral, nat., dons	2.75 5. 5 0	8.65	alock), acid, 96%, tenke,
syn., 55-gal. dms. f.o.b	3.16	-	N.Y
Citric acid, USP, anhyd., gran. 250-lb.	1.18	_	Total In A, Cryst, Over 600-b.
Citro acid anhyde, powder bc. higher Citro neta oil, Ceyton, dms	2.15	2.20	Craosote, contar, crade 1, tonke
China, dins	2.60 2.60	=	1.0.0. Works
Citronetal, 25-ib cens Ib. Citronetol drums, 1.o b. Ib. Citronetyl acetate, dma. Ib.	3.95 3.68	7.40	m-Cresci, 95-98%, dma, tl., to b. ib. 4.31
Citroneryl formats, 25-lb. cns. ib. Civel, arbi., bols ib.	5.50 6.86 20.00	6 50	tanks, same basis
Clay bel, dorn, air floated, bos., c.l.,	400.00	:	bulk, same basis 1., 1.o.b.lb
dom., crushed, moisture repel-	49.00	-	buk, same basis
ions, bulk, c.l., Tann ton C'ay Chins (see Keckn). Cleaners, risphihe, 140° llash (sinks.,	24.00	-	p-Cresol, 98%, dme., t1, 1,0.b, , lb, 1,22
New Jersey or New York.	1.40		content above 25%, resin and
Ntadagascar, reg	1.40 3.15 3.40	=	tanks, irt. alid.
Cloves, Brazil	26.00 2.35	27.00 2.40	Cresylo acid, dom., metapera content 25% or lees, tanks, frt, alid, lb. Crotonia acid, 200-lb. dms., t.l., f.o.b.
Zanzhar	4.20 2.35	2.40	Cryptie eva. bulk of works
42 CHEMICAL M	ARKE	TING RE	PORTER October 27, 1986
		1	man training

J. Philadenesis hould			Diethyl barbituric acid (see Barbital).
Cuberoot, powd., 5% rotenone, basis, 50-lb, bgs., t.l., works b.	.60	.14	Diethyl cerbenete, tenkwegon
Curriene, bulk, contract, f.o.b lb. Curriene, bulk, contract, f.o.b lb.	.14 .95	1.00	Diemyr egnendiamine. CP dats. c
Cyanuric acid, dms., c.i., t.i. In.	1.19	1.37	divd. tanke, divd. Diethyl othenolamine tech., 8c. per
Cyclamen eldehyde, 50% min. elde- hyde content, dras lb.	4.95		Dieny exalste, dms., c.l., to
98.5%, dms	7.35 7.86	9.20	worke
Cyclohexarie, bulk, barges, wks gal. Cyclohexanol tech., tarka, t.o.b lb.	.9825 .52	.9925 .8614	odoriees coemetic grades, i.
Cyclohaxenone fech., tanke, f.o.b. worksb.	.551/2	.591/2	Diethyl suffete, tanks., frt. sid. E Diethyl thiourse, dms., o.L. t.
tarks, dlvdb.	.565	-	works. DI-2-ethythexyladipate (see Dioctyl)
Cyclohexylamine, tach., tanke, worksib.	.85		Diethyl foluanida. 95-97% min. me leomer. dms., t.l., i.o.
			N.N-Die1hyl-m-toluidine, tech. III
			dms., c.l., f.o.b. tanks, some besis
			Diethylamine, dms., c.l., divd tanks, same basis
			N,N-Diethyleritine, dms., c.L, t.L, f.o works.
2.4-D acid, tech., 50-lb. bgs., c.l., t.l.,			tanke same besis. Diethylbenzene, tanke, f.o.b. works
works, fri. equald lb. 2,4-D butyl ester, tech., 55-gel. cms.,	1.10	1.25	Di-2-ethythexyl ezelete (see Dioctyl p Di-2-ethythexyl phthalete (see Oloch
c.l., 1.l., works, frt. equald lb.	1.30	-	Diethylene glycol, tanks, divd. E Diethylene glycol monobutyl eth
tarks, same basis	1.25	_	dms., c.l., irt. alid. E tanks, frt. alid. E
works, frt. elid gel. Decyl alcohol, mixed isomers, tanks,	8.05	-	Diethylene glycol monoethyl eth
perfume grade, dmalb.	.32 .76	Ξ	dms., c.t., frt. elid. E tanke, frt. elid. E
Defluorinated phosphate (tricalclum), feed grade, 18% P. c.l., bulk,			Diethylene glycol monomethyl eth dms., c.l., frt. alld.
f.o.b. works ton	195.00	228.00	lanke, frt. alid. Diethylene glycol monobutyl ether
Denatured alcohol, ethyl, CD18, CD19, tanks, dlvd. E gal.	1.87	-	etete, dms., c.l., dlvd. E tanks, dvd. E
NOTE: Tankcar eales require written au and Tobacco Tex Division.	nnonzation	by Alcohol	Diethylene glycol monoethyl ether: etale, dms., c.l., frt. ald, E.
Denatured alcohol, ethyl, SD2B, tanka, divd. Egal.	1.91	-	lanks, irt. ald. Diethylene triemine, tenka, i.o
803A, tanks, divd. Egal. 8023A, tanks, divd. Egal.	1.791/2		works Disthylenetrismine pentescetic ed
8D23H,tanke, divd. E	1.88	-	peniesodium ealt soluti tenk- cars/tenktrucks,
SD30, tenks, dlvd. E ga).	1.721/2	=	equalizedgr
SD35A, tanka, divd. Egal. Denetured alcohol, ethyl, brucine formula	1.9612	-	Diglycol leurete, dms., ton lots Diglycol stearete, dms., t.t.
SD40, tanka, dvd. E gal. ethyl, cotional formula, SD40, tanks,	1.93	-	Dihydrezine sullate, dms., works
divd. Egal. For anhyd. alcohol on above formulae,	1.821/2 prices are 1	2c. per gal.	Dihydrostreptomycin sulfete, bulk k Dihydroxyecatone, 50-kilo lo
higher. West Coast divd. prices are the san			Works
except in Idaho, Oregon and W differential on tankcars is maint	ashington		Ol-isobutyl phthalete tanks, divd. E. Di-isobutylene, tenks, f.o.b. Ho
Desoxyephedrine hydrochtoride (See I		stamine hy-	Di-isodecyl phihalate, tanks, divd
drochloride) Detergent alkylate, straight chain do-			Di-isononyi phihalete, tanks, divd. Di-iso-octyl azelete, tenks, divd. E.
decyfbenzens, tanks, barges, f.o.b	.45	_	Di-iso-octyl phthalate, lanks, divd. Di-isopropanolantino, dma., c.l.,
Oextrin, com, cenary dark, paper bgs., c.l., works 100lbs.	29.04	_	tanks, semo basis
while, peper bge., c.i., works 100 lbs.	27.43	_	Di-isopropylamine, dms., c.l. divd tanke, semo basis
Dextrose, enhyd., coml., bge., c.l., dvd. New York 100 lba.	41.10		Dilguryl 3,3-thiodipropionale,dms., irt, elid.
USP apacial, 100-lb, box, o.t.		-	Dill oil, USP, dms
divd. New York 100 bs. Dextrose, hydrated comi. bgs. c.l.	49.50	-	Dimethyl benzyl carbinyl acetets. lb. dms.
divd. New York 100 lbs. Western zone 100 lbs.	24.26 25,60	Ξ	Dimethyl cerbonate, dms, t.l., f.c. works.
Discatone elophol, ecetone free, tanke, divd	.52	_	Dimothyl dichlorovinyl phosphate, gal.dms., f.o.b.
Diacetyl, flavor grade, dms	8.25	15.00	Dimethyl othanolamino, arhyd., dr
min. 18% N, 48% P. bulk, c.l., 1.o.b. Fle. works ton	140.00	145.00	tanke, divd. E. Dimethyl other, acrosol grade, tar
Olammonium phosphata, feed grade, 18% N, 20% P, bulk, c.l., f.o.b.	140.00	140.00	divid
Fle. works ton	240.00	-	Dimothyl phtheisto, tenks, f. works.
bge., same basis ton Diammonium phosphate, tech., bgs.,	250.00	-	Dimethyl enbanato, lanks, f. works
o.l., 1.l., worke, fri. equald 109 fbs.	52.50	-	Dimothyl suffalo, rot. dms., c.l., l., works.
food grade, bgs., c.l., 1.l., eeme ba- sis 100 lbs.	57.75	_	Dimethyl eutilde, tanke, works
2,4-Di-tert-armylphenol, min. 85.5%, dms., c.l., 1.l., works, b.	1.04	_	Dimethyl sulfoxide, tanks, works . Dimethylacetamide, bulk f.c.b
tanka, workeb. Diarykka yestow, OT, (yestow 14), dma.,	.97	-	Dimethylamina, 25% soln., lenks, oquald., 100% basis 40% soln., tanke, frt. oquald., 10
o-Dianisidine dihydrochloride, 100%,	8.20	-	basis
MW 244, dms., t.l., dwd ib. 2,6-Di-tert-Butyl-p-Cresol (see Butylste	4.26	- Ohumai	anhyd., fanke, frt. equakt N.N-Dimethylaniina, t.l., f.o.b
Dibutyl furnarete, tanks, 1.o.b. works			I.I. dme. N.N-Dimethyliomamide, dms., c.l.
Olbutyl maleate tanks, f.o.b. works . ib. Olbutyl phihalete, tanks, works ib.	.63	.88 .64	f.o.b., works
Dioutyl sepacate tanks, worke ih	.54 1.72	.60 1.89	2,4-Dinitroanline, fons-lots, f.e.b Dinitroanline, orange toner, CP, b
Dibutylamine, dme, c.l., divd	1.12	-	2.4.Dinitrochlorobenzene, Civetati
works tieke, dma.,	2.00	_	et 47°, t.l., 1.0.0. Units
3.4-Dichlorogniting, tech, 88%, and	1.80	-	2,4-Dinitrophenol, 250-lb. ome., 1-
o-Dichlorobenzene, tech., 80%, dess.,	1.48	1.67	Dinitrotoluene, mix., tech. 1.
c.l., t.l., divil	.52	-	2,4-Dinitrotoluene, dme., c.l.,
tanka, eema besis	.54		tanks, works Dioctyl adipate, tanks, frt. ald. E
p-Dichlorobenzene, graded, 300-b. dms., t.l., f.o.b., frt. equald. ib.	.47	-	Diocry azeigie, tanks, tryu.
CHINE, HO., BRIDE ISRNIE III.	.51 .48	.52 .47	Dicetyl sebacate, 99%, tarks, t
10.000 be or more works in		_	1,4-Dioxane, tanks, frl. aid. C
Dicyclohexylamine, dms., c.l., ti			t.l., same basis. Dipentaerythritol, bgs., o.l., t.l., o
tarks, same basis	1.35 1.25	=	Dinentene steam-dist., fanks, f.
Glyd. Distriction DGS. O.l. 11	4 40	_	autiate turpentine derived, tanks
98% tanks works	-		Dip of (see 1at accion).
Diethenolamine leure cultate tente	.35	47	that
frt, elid			Diphenyi, 89.876, 0ga., unic
Processing Processing	77 IOSB).	4 - 1	tanka, works.

bital). Ogone,			:	1.1t	. 00	-
lo.	1.40	_	Ophenyl oxide, lech, grede, tanks . lb. Diphenylamins, reld., flake, bgs., t.f.		t.20	
lb.	1.18		works, in equald	1.25		
c.perib.log	1.10 er.	•	octylated, flake, bgs., 1.1, l.o.b.	7.68	-	
. 1.o.b.	t.80		Dohenyiguaridine, bgs., 1.I., frt. sikt.	2.52		
lb. 88, 1.1.,	.89	×	Diphenylhydanioin-accium USP.	5.00	5.50	
Eb.	.971/2	•	Denerylmethane 4.4,-di-laccyenate, polymeric, bulk, c.l., min. lrt.			
.L. t.1.,	2.48	•	aid ID.	.91 .45	Ξ	
octyl adipat in. meta	e).	•	Denoviere glycol monomethyl ether, dms, cl, divd	.54	_	
. l.o.b.			tanks, same besis	.49	-	
h., llq.,	2.76	•	irt. al.C	2.92	-	
b.	3.18 3.10	:	p-roythiouree, tech., solid, dms., t1, frt. aid	3.t1	-	
·····lb.	1.15 t.02	:	peridecyl phthalate, tanks, dlvd lb. pundecyl phthalate, tanks, dlvd lb.	.94 .91	.95 .65	
L. f.o.b.	1.83		Dylnyibenzene, 100% basis, tanka works	2.75	2.60	
vorks lb.	1.75	-	dris, 100% basis	3.00 .79½	2.70	
octyl azelali Oloctyl phti	e).		Oxidecenyl aucolnic anhydride, dms., cl.tl.divd	.88	_	
EIb.	20%	10	Dodecybenzene (see Detergent Akylaie). Dodecylphenol, ianka, min. frt. elid.			
ab.	.85	-	Dyes, coalier, certified colors for load,	.49	.53	
d ether.	-67	•	drugs and cosmetics, 100 lb. and over, int. prepaid or eld.			
lb.	.64 .56	:	Bise, FD&C. No. 1	21.20	22.50	
y ether. tb.	.62		Green, FD&C, No. 3	29.15 19.50	29.22 85.00	1
Ib. other ec-	.64	-	Yellow, FD&C, No. 6	7.45	24.50 7,95	
E lb.	.80 .72	: !	No. 8	9.45	5.75	
other ac-	.80		and cosmetics. 100-lb. lots divd.			-1
lo.	.72			9.50 2.90	-	1
i, l.o.b.	1.80	151	Red, D&C, No. 4	9.95	-	-
tic ecid. solution.			No.19b. 3	9.90 8.25	-	1
icks, frt-	.45		No 28	2.45 9.95	Ξ	ı
grem	280 .324	300	Tabra, O&C. No. 7	8.85 1.00	-	1
rkslb.	.62 1.10	.B 125	No. 10	0.55 9 . 90	48 85	1
bulk kilo. Ilo lots,	48.00	-	Dyes, coaliar, for general use in doth	5.25	-	
kilo.	40.00	:	and paper syeing (by Color in- dex Name), i.o.h. works			1
vd.E.B.	.55	9	Dog & BLO Blog SO	5.75	-	1
b.	37	Ra	ABO METATOR BU SAP 150% . Ib. 19	9.46 9.85	Ξ	ſ
dibvib.	.40 .40	-	A DI 113 NBVV 5R	4.13 3.55	Ξ	ı
d.E.lb.	.40	119	A07711	2.12 3.72	_	1
c.l., Irt.	.86%	-	AO: 10 Wool Or G	LD0 L30	-	ŀ
ilydib.	.86% 1.17	:	AR20	.15 .13	-	ľ
dms., 1.L.	1.07	-	AR 18 Scarlet 4R Come	.85	_	
lb.	1.89 7.00	82	AR 161 Sijk Red 3R Conc	.85	-	П
itate, 25	15.80	-		.50 .75	Ξ	ı
lb.	6.95	-	AY 23 Tertimolog F. Co	.22 .69	-	1
1. f.o.b.	.90	-	889Znc Free	.19 .4D	_	ł,
hate, 65-	t.B0	t₩	B G 1 Sade Crystate	.42 .56	-	ŀ
d, dme.,	1.15	11)	BV 1 Methyl Schu Committy Stal Ib. 6.	.90 .80	-	
e tanks,	t.07	13	8Y2Bowi Verect 44000 10.	.95	-	5
B, 1.0.b	.38	-	Er Com som	62	2	1
B, f.o.b	.85		DBit 22 Fast River On	25 45	-	E
L, l.o.b.	248	264	UB: 230 Resin Ford B D. 4.	65 26	-	E
Ю.	.57 .46	-	UGr28 Basis T	23	-	E
lb.	.59	:	ORAL Reference	15 08	-	1
rkalb.	.87Yz	-	OR BI Page Page Page 10		-	ĮÈ
anks, frt.	.83%	-	OCCIONAL SCRIPT AV	35	-	[_
id., 100%	.8319	:	OCT 102 Fast Orange WSP Liq. b. 6. WS Corp. 150% DY 4 Brilliage Page 11.	47	-	E
b.	1.00		125% Pollari Paper Yell 3GX		_	E
- C.L. L.L.	1.11		O Y 11 Stillorne Yellow GA, Ex.		Ξ.	E
	.49		Conc. O Y 1) Fast Yellow RGL Conc. 200%. DY7 Resin Fast Yellow RGL Conc. DY7 Resin Fast Yellow L5G	33	-	ε
ob lb.	1.22	•	DY27 Resin Fast Yellow L5G 1b. 8.7 De Rt Scarlet BA 14.4		_	8
Ch pag.	5.20		DARGE DISCHARM	28	-	8
harlotts.	,96	:		00	_	E
ne. 1.0.b.	1.95		040/3 Orange GRA lb. 8.8 040/37 Orange Og lb. 4.8	4	<u>-</u>	
fo.b.	44	ß	DaySt Yellow 30 tb. 3.6 Cb. 10	7	- 1	81
iO.	. 30		Da Bt 27 Biue BGLF 17.2	5	-	E1
b.	126	*	90% Paste ib. 22.8	0	: ļ	Et
i.E b.	99	101	Yel Jiske Otean Double Paste . b. 4.1.1 YE. 25 Okye TA Paste . b. 8.5	0	-	EL
, b,			5.9	0		E
10,	1.13]	
C.I. LI. D.	1.21	7	C		.	
	1.79				}	
b.	25	3.	Stiff, 19th, 95-99%, days., t.l b. 7.00			_
MENS IV	1		Grane, Srn. arrivol. USP, 90-oz.)	-	Fe
ide. USP	100	AND .	Total Indiana	5	.]	Fe
0.1	7.5	-	Fredrie Sulate, USP, Cryst. 480 38.26	40.	26	Fer Fer
10.	1		tion tinks, dvd kilo 43.00	45.	28	Fer
			. iO, .86		<u> </u>	
11.1	1		and a			٠,
						-

.20	Epinephrine base, eyn., U6P, bots.				
-	Epoxy rasin. liquid bulk tanks asked	n .60	-	Ferricchloride, sewage grade, 100 per- cent basis, I.o.b. works, tank	
	Epsom selt (ess Magnest 15	1.291/	1.41 1.331/2		176
-	I ~ JING ON SCIO. DOWN OFER 100 IL			Ferric exalete, tech., oran, 50-lb, de	
	works		4.25	Ferric oxides feet loss Outdoos	1
50	divd., li., Md. Kv. F. States		7.23	Ferric phosphale, FCCg insoluble pow- der, dars, t0,000 lbab.	
	Cule St Part to Who, St			1 ' U I U PYROUNOSDNAIA SOLUBIO PURIL	τ
	Sams had s		-	pearls, 50-lb. dmlb. Ferric resinete, precip., 9.75% Fa.	1
	Tarry according BAIL SO-KAN TORNA		.46	Ferric sulfets, north budgeted 100 h	
	divd		.411/2	bulk works	141
	tanka, dvd	1.t3	-	I TO STATE OF THE PROPERTY OF	117
	Ethyl alcohol, swn 190 of Lipps	.69	Ξ	graen gran. 100 lb. dma., 2,000 lb. mln., f.o.b. shipping	
15 15	free, tanke, divd. E		:	2c. per pound surcharge for shipmans to	2
0	Ethyl elcohol, fermentation, lanks,	Tree prices	12c. higher	Ferric-ammonium oxelate, fina gran. 250-ib. dms., t.t., f.o.b. works.	
0	I I.U.U. WEYER	4	1.28	Ferric hydroxyethylene dieminetri-	
	Price range ettributeble to various su Ethyl alcohol, denet, (see Denatured ak Ethyl paragraphysics at Ethyl paragraphysics at			aceuc ackt, industrial conta	
	Ethyl benzosla dme	caine). 1.35		90dium esit, soln., 4.5% Fe, t.c., t. t., l.o.b. works b.	
3	frt. afid. E	.76	1.50	tion, 5% Fe to t tob	
	Ethyl butyrate, dme	1.35	1.50	Farrous fluoborate liq. conc., dms., 1.t.	
n	I VUS., LL. ITI. EXLIBYI F IN	4.55	-	works, irt. equald	
2	etandard vie 10, 20, 45, 100 cps., 1.l., irt. equald. E	4.17	4.22	I . O. OGS LIGOLILLIBURIA IN NO. ES	2.
0	equald F	4.25	_	Fenous aufate, moist, bulk, t.l. 1.o.b.	1.
5	USP VIS., / cps bge., t.l., frt. equald.	4.99		heptahydrate, gran, bulk til lab	30.
	10,20,45, 100 bga., t.l., Irt.		4.00	monohydrate, gran., bulk., t.l., f.o.b.	145.
	Frt equals E	4.59	4.69	WORKS A	t 70.
	Luiyi Chlorige, (ech., cyls., iri alid ib	4.51 .26	.261/2	Cryst. 250-ib dms b.	
	Elhyl chnamate dros	.24 41.00	.281/2	Sibaria dmsb	10. t 2.
	divd. E	1.23	_	kettle-bodlad, tanks, c.iib.	
	Ethyl ether, relined tenks 1 o b	1.15	Ξ	"Unit COIO-Dressed dma cl is	
	Ethyl hexanoste, dmslb. 2-Ethylhexoic ecid, dms., ci., t.l., divd.	.46 4.25	4.75	tanksib. Flahmeel, dom., menheden, 80%	
	E	.83	_	protein grd., bulk, t.o.b. At- lantic port	295.
	tenksdivd. E	.57	-	I.o.b. Gull port	290.
	2-Ethylhexylalcohol, tanks, trt, alid, E Ib.	.78.5 .35	-	Dulk, C.I. 11, ex whse , l.o.b	
	Ethyl Inalcol syn. 55-gal das	6.25	Ξ	Fluobone acid, dms. t.l., works, in	285.
	dms dms		-	Fluorocarbon, No. 11 bulk, tanks,	-
	Ethyt methecrylete, tanks irt	10 85	-	No. 12, bulk, same basia ib	
	n-Ethyl morpholine, dms. t.t., frt.	1.D6	-	No. 22, bulk, same basis lb. No. 113, bulk, same basis lb.	1
	tanks, eame hasis	2.D0- 1.92	_	NO. 114, Dulk, same basis	t.
ı	works	1.04	-	Fluositicic acid see Hydrofluositicic acid]. Formaldehyde, 37% methanol free un-	
[Ethyl oxaleta (see Diethyl oxalete). Ethyl parethion (see Persthion, ethyl).	1.04	-	44-45% 1% metheral), teaks	.0
	Ethyl silicate del. (see Tetraethyl orthosili Ethyl silicate, 40% evellable SiO ₂ .	icate).		divdb. 37% (inhibited 7% methanol,	.t
	OMS., C.L., 1.O.D. Works In	1.45	1.46	divdib. 37% (inhibitad 11-15% methanol)	.0
- 1	N-Ethyl-m-teluidine, tech., liq., dms.,	1.39	-	I RINKA, CIVOL	.1
- 1	tanks, same hasts ib	3.19 3.10	-	Formsmide, tanks, I.o.b	.3 .4
- 1	N-Elhyl-o-kuldine, dmsib. Elhyl vanilin 100 ib. dms., 500 ibs. or	2.85	2.90	Formic scid 9D% tanks, I.o.b. worksb.	.3
	more	t3.50	-	95% dms., c.l., worksb. Fructose, cryst., 19,000 kilos or more,	.5
- 1	10D lb. dms., less than 500 lbs lb.	13.75 14.00	t4.50	dmslb. Fumaric acid, food grade, bge. I.I., frt.	.90
	Ethylemine (see Mono-Di- end Tri-) N-Ethylsniline, dme., c.l., t.l., f.o.b.			equaid. E b	.75
- 1	lenke, seme baels	1.99 t.58	_	tech. grade, bgs., t.t., i.o.b. irt. equeldlb.	
- 1	Tox	.22	.23	Furfural, lenke, I.o.b. Cedar Rapids, lowa, and Balle Glade, Fig. 1b.	.75
- 1	Ethyleno, contract, divd	.t8	.191/2	Furfuryl skohol, tanks, f.o.b. Memphis, Tenn. end Omaha, Neb ib.	.72
	Ethylenodiamine, 99%, tanks, I.o.b.		19.26		.,, 2
1	workslb. Ethylonodiamine dihydriodidelb.	1.30 7.56	t.305 9.26		
	iresodium sali, soin., t.o., 1, 1			I ē	
	frt. equeld lb. Ethylene dibromide dme., c.1., frf.,	.381/2	-	U	
	equald	.39	.46		
	Einylone dichloride, tenks, i.o.b.		.42		2.90 3.05
	workeib. Ethylene glycol, induel., tenke, iri.	.17	.17%	Garlicoli, dris., Egyptian lolo 100	1.0D
].	elidib. Ethyleno glycol, monobutyl ether,	.31	-		.50
- 1	tanks, dvd. E	.411/2	-	150 AOAC teal, dms., L1,L , b. 1	.75 .85
- 1	tanks, dvd. E	.51	-	176 AOAC test, dms., LLI lb. 1	.95 205
	tanks, divd. Eb,	.34	- !	225 AOAC lest, drns., f.f.l lb. 2	.10
	Ethylane glycol monobulyl ether ac- etate, tenks, frt. ekd. E lb.	.641/2	-	275 AOAC test, dms., f.f.l lb. 2.	.30
-1'	Ethylene glycol monoethyl ether ac- etale, tanks, ft. alid., E ib.	.651/2	-	Gentian violet (see Methyl roseantine chloride	.50).
- 1 '	Thylene glycol monomethyl ether ac- etate, tanks, irt. alid. E ib.	.43	-		.25 .50
1	thylene oxide, tanks f.o.b	.35	.45	syn. 98-98%, dms	76 .
E	ucalyptol, NF, dms. Portuguese .kilo.	7.60	[Bourbon b 65. Chinese b 23.	00
		3.05 7.65	-	Egyptlb. 22,0	
1				Geranylacetele, dms	
П		1 30 1		nat.dms	80
		1		nat, dins	16
			;]	nenza, Utah ton 180.0 asleota, same basis ton 180.0	
		.00	-	Anger, Cochin, bos	3
F	ennel off, eweel, USP, cns lb l ennel seed, Egypt	3,00 37	G	Ingeral Chinese	10
F	enugreek seed holder, bos lb.	80 25	82 32 G	inger elegratin NF bota	0
F	errio chioride anivol., tech., 350-lb., dme.,o.l., worke,, 100 lbs., 36		9	Kauber's salt (see Social) suitate).	
Í	erda entende. 49 He: Ondro drebe :		1 1 1	Lo.b Works	1
١.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	3.10		larika asnie beald b 4- Detober 27: 1986	11
	The state of the s	A	11.00	COURT WILL TROOK	: (.

1.41 1.331/2	workston	176.00	255.00	- 117
	Ferric oxalete, tech., oran. 50-lb. dm	.64	-	- 111
4.25	Ferric oxides (see Iron Ovides)	1.65	-	- 11
7.23	der, date, tit and the			
	1 'C' PYRODHOSDNAIA Soluble putt	t.to	1.15	- 111
-	Pearls, 50-lb. dmlb. Ferric resinete, precip., 9.75% Fa.	1.11	-	
.46	Ferric sulfata, partly hydroted 100 h	.45	-	
411/2	bulk works	141.00	-	V
-4242	Ferric emmonium citrte. NF. brown	117.00	-	Glu
Ξ	2,000 lb. mln., f.o.b. shipping			
_	2c. per pound surcharge for ablamant.	2.00	2.95	1
c. higher		W. OT Den	ær	1:
	E dma., t.C., f.o.b. works.	.42		11
t.28 /es.	acetic acid, industrial grade	.76	-	Glue
	SOCIUM BRIT SOIN 4 5% Co			10
1.50	t.c., t. t., l.o.b. works b. agricultural grade, sodium salt solu-	.55	-	16
-	works	.64		22
1.50	Works, Irt. squard		-	20
-	I GOOD GUCCHAIR NET I WARE EIL	.94 2. 2 5	_	31
4.22	Ferrous naphthenate, liq., 6%, Fe. drna., divd	1.17	_	37
-	works.			41
-	i i white i you are, oran, hilk ti lab	30.00	-	47
4.69	monohydrate, gran., bulk., t.l., f.o.b.	145.00	150.00	Glut
	USP powd. 400-lb dme	t 70.00 .49	190.00	Glyc
.261/2	cryst , 250-lb. dms	.6t	-	US
.28V2 -		10.00 t 2.75	_	Sy
_	Fish oil, rafd., alkali, tanka, c.i. b. kettle-bodled, tanks. b	.29	-	Glyc
-	"Y" U COIO-Dreased dma c I III	.34	.35	Glyc
4.75	tanksib. Flahmeel, dom., menheden, 80%	.29	-	Glyd
_	protein grd., bulk, t.o.b. At- lantic portton	295.00	_	
-	I.o.b. Gull port ion imp., Chilaan, 95% protein min,	290.00	Ξ	Crat
-	Dulk, C.J. I.I. ex whee Lob			Grep
-	Atlantic and Gult ports ton. Fluebone acid, dms. t.l., works, Irt	285.00	-	
-	Fluorocarbon, No. 11 bulk, tenks,	.70	-	Cr.
-	I delva ib	57	.84	Grep
-	No. 12, bulk, same basia lb. No. 22, bulk, same basis lb.	. 69 1 05	.74 1.14	
	No. 113, bulk, same basie ib. No. 114, bulk, same basia ib.	.99	.931/2	Grep
-	1 Fivosticic acid Isaa Hydrofi positicic acid	t.02	1.08	
-	Formaldehyde, 37% methanol free jun- inhibited) divd., guil	.088	.0905	Grap
	44-40 % IT% MATHAMAN 120Va	.t015		Ι.
	divd b. 37% (inhibited 7% methanol,		.t065	1
.46	37% (inhibited 11-15% methanol)	.0945	.1025	Great
_	tanka, divd lb. Formsmide, tanks, l.o.b lb.	.1055 .39	.1060	Guala
_	formic ecid 9D% tanka, i.o.b.	.44	-	
2.90	WO/KS b.	.3612	_	Gusta
-	Fructose, cryst., t 9,000 kilos or more.	.511/2	-	
.50	fumeric ecid, food grade, bge. I.I., frt.	.90	1.03	Indu
	equald. Eb.	.75%	.77%	
-	tech. grade, bgs., t.t., l.o.b. irt.		.621/2	
-	Furfural, lenke, I.o.b. Cedar Rapids, lowa, and Balle Glade, Fla. lb.	76	10274	
.23 19½	Furfury/skohol, tanks, f.o.b. Memohia	.75	-	
.26	Tenn. end Omaha, Neb lb.	.72		
305 26				Heliotro
-				Hemioc Hemban
. 1	U			Hepten
46				85%
42	G sait, dms., frt. alid. 100% basis., , ib.	2.30		
17%	Galac acid, 400-kito lots kilo 2	3.05	-	Heptsro I-Hexad
	Gelalin, edible, 100 AOAC test, dms.,		0.00	Hexahy
. 1	128 AOAC test, dma. i.t.f ib.	1.50 1.75	1.75 1.85 i	Hexame
	150 AOAC test, dms., L1.L b.	1.85	1.95	g
1	200 AQAC test, drgs., l.t.l b.	205	216	p
	250 AOAC teat, dms., Lf.I lb. 2	2.20	2.25 2.35	Hexane,
	275 AOAC test, dms., f.f.l lb. 2	2.30	2.45 2.65	95%,
	Gentian violet (see Methy) roseenting chlorid	e).	2.00	Hexano
	nat., 90-92%, dms	5.25 1.50	-	Hexyf e
5 [syn. 98-93%, ams	.76 .00	Z*	p-Hexyl
	Bourbon	.00	: 1	Haxylene Haxylene
	Entert in an	00	- 1	· PURYE COS

1.15	PRICES		
-	WEEK ENDING DOT 5		
-	WEEK ENDING OCT. 24	<u>4, 1986</u>	
-	Glue, bone, extracted, green, jelly-		
	grams, bge., c.l ib. 85 jellygrams, bge., c.t., f.o.b b.	-	-
2.95	I I I D JONYO ISMS, DOG., C.L. fob lb	.99 .79	-
	LOG JENLYGREMS, DOG., C.L. Joh. In	.77	_
	194 jallygrams, bgs., c.l., t.o.b fb. 192 jallygrams, bgs., c.l., f.o.b fb.	.79 .97	-
-	220 jellygrams, bge. c.l. f.o.b tb. Glue, hkfe,	.93	_
	t 08 jellygrams, bos., t.l., f.o.b. In	.90	
_	135 jerygrams, boa., 1,1, 1,0 h	.95	_
-	164 jally grams, bgs., t.l., l.o.blb. 192 jelly grams, bgs., t.t., f.o.blb.	.90	-
_] ~~~	.95 1.00	_
-	251 jellygrams, bgs., t.l., f.o.bib. 283 jellygrams, bge., i.l., f.o.bib.	1.05	-
-	310 Jenygrams, boa., tl., to h in	1.10 1.15	~
-	I STORY OF AUTO BOOK . 1.1 fob lb	1.20	_
-	379 jellygrame, bgs., i.l., f.o.b ib. 411 jellygrams, bgs., t.l., i.o.b ib.	1.25 1.30	-
_	The same of the sa	1.35	-
0.00	477 jellygrams, bgs., 1.l., 1.o.b., 1b. Glutarnic acid, 991/2% dms., 100-lb.	1.40	-
0.00	COTS, ITT. AND kNo	9.65	_
0.00	Glyceline, net., reld., USP, CP 99%%		
_	usp, cp, nat. 86%, tanks, divd ib.	.881/2 .9744	-
-	Syn. 99%, lanks divd	.9914	Ξ
-	Syn. 88.5%, tanks divd tb. Glycine (see Aminoacefic acid).	.91	-
.36	Glyceryl guelacolete, 100-lb, fib, dros		
-	f.o.b. kilo Glycolic acid fase Hydroxyacetic acid)	14.50	-
	Glyoxel 40% Boln., butk, tanks		
-	Grapel ruit oil, Fls . dms. lb.	.441/2	-
-	Com., ame	3.00 3.00	_
	Isreell Ib. Grephite, amorph, powd., bga., dma.,	3.00	-
-	OX MUSB	.16	.40
-	Cryst., 96-90%, DOWIL, bos. cms		
.84	Grephrie, cryst., 90-92%, powd., bgs	30	60
.74	umsex whse ih	.4D	.75
1.14 .93ó	95-95% powd., bgs., dms., ex whseb.	6D	.80
1.08	Grephite, amorph., cryst., 97% and up	45	.01
	powd., bgs., dms., ex whseb.	.80	1.20
.0905	Graphite, fieka, No. 1, 80-95%, box	.00	1.20
.t065	dms., ex whselb. No. 2, 90-95%, bgs., dms., ex	.65	.75
		.95	.75
.1025	Grease (See Oils, Fets & Waxes marke) re Grease oil (See Lard oil).	port)	
.1060	Gualacol, tech , 500-lb dans , 24 0000b		
_	min., f.o.b. Walfingford	0.00	
	Gusiacwood oil, dms ib.	2.70 3.75	-
	Guer gum, edible, bgs., c.f. t.o.b.		_
	ahip'i.pt	.50	.75
03	Barne basis ib.	.50	.85



G sait, drie, irt. alid. 100% basis. b. 2.30 Galis acid, 400-kto lots. Milo 23.05 Galis acid, 400-kto lots. Milo 23.05 Gelain, edible, 100 AOAC test, dries. Milo 23.05 128 AOAC test, dries. Lil. b. 1.50 128 AOAC test, dries. Lil. b. 1.50 128 AOAC test, dries. Lil. b. 1.85 128 AOAC test, dries. Lil. b. 2.05 228 AOAC test, dries. Lil. b. 2.05 225 AOAC test, dries. Lil. b. 2.00 225 AOAC test, dries. Lil. b. 2.00 236 237 AOAC test, dries. Lil. b. 2.00 238 238 AOAC test, dries. Lil. b. 2.00 238 239 AOAC test, dries. Lil. b. 2.00 245 230 AOAC test, dries. Lil. b. 2.00 235 236 AOAC test, dries. Lil. b. 2.00 235 237 AOAC test, dries. Lil. b. 2.00 238 238 AOAC test, dries. Lil. b. 2.00 238 239 AOAC test, dries. Lil. b. 2.00 239 240 AOAC test, dries. Lil. b. 2.00 245 250 AOAC test, dries. Lil. b. 2.00 255 260 Cartinot vibel (gene Melhyl rosean/fire chickle). Gerands, ayn., 90-22% dries. b. 5.25 280 AOAC test, dries. Lil. b. 2.00 280 Cartinot vibel (gene Melhyl rosean/fire chickle). Gerands, ayn., 90-22% dries. b. 5.75 280 AOAC test, dries. Lil. b. 2.00 280 Cartinot vibel (gene Melhyl rosean/fire chickle). Gerands, ayn., 90-22% dries. b. 5.25 280 AOAC test, dries. Lil. b. 2.00 280 Cartinot vibel (gene Melhyl rosean/fire chickle). Gerands, ayn., 90-22% dries. b. 5.75 280 AOAC test, dries. b. 5.75 280 AOAC test, dries. Lil. b. 2.00 280 Cartinot vibel (gene Melhyl rosean/fire chickle). Gerands, ayn., 90-22% dries. b. 5.75 280 AOAC test, dries. b. 5.75 280 AOAC test, dries. Lil. b. 2.00 280 Cartinot vibel (gene Melhyl rosean/fire chickle). Hexamon, product, tarke, Lo.b. b. 50 280 Cartinot dries. Lil. b. 2.00 280 Cartinot dries. Lil. dries. d	^	Heliotropin, dmsb. Hemiock oil (see Spruce oil).	8.00	8.25	•
Sast. drms., irt. alid. 100% basis b. 2.30		Hanbana laavas hie na	.56	-	
Salit dre., frt. alid. 100% basis. b. 2.30 Salit dre., frt. alid. 100% basis. b. 2.30 Salit cold, dre., Egyptian Ioio 100.00 110.00 Salit cold, dre., Egyptian Ioio 100.00 110.00 Salit cold, dre., Egyptian Ioio 100.00 I		mont. Tex	1.07	-	::
Salic acid, 400-kito lots. Rio 23.05 Sarric cil, dins. Egyptian Iolo 100.00 Selatin, edible, 100 ACAC test, dms. Iol. Iol. 128 AOAC test, dms. Iol. Iol. Iol. Iol. 128 AOAC test, dms. Iol. Iol. Iol. 150 AOAC test, dms. Iol. Iol. Iol. 150 AOAC test, dms. Iol. Iol. 200 AOAC test, dms. Iol. 200 AOAC test, dms. Iol. Iol. 200 AOAC test,	salt days fri gild 100% heals the 200	Tex	1.18	_	
Seric Ol, dms., Egyptan Dolo 100.0D 110.00	Riffe acid 400. kito inte	HEDISTORG BCIO. SVA., Janka, La.h	.65	_	
Hexamydrophthalic enhydride, tech. Hexamydrophthalic enhydride, tech. Hexamethylenetetramine, gran. bg. 1.42	Agric oil days Foundler los 100 00 110 00	I-Hexadecanol, syn., tanka, f.o.b b.	.4314	_	11.
I.I., divd. D. 1.50 1.75 1.85 1.	Relatin edible 100 AOAC test dos	Hexanydrophthaic enhydde, tech			1,0
128 AOAC test, dms, l.t.f. lb. 1.75 1.85 1.95 1.		i dims., Lt.I., f.o.b. works B.	1.42	_	: 1
160 AOAC test, dms, L11. b. 1.85		, mexamethylenetetramine, gran, bos.			1.0
176 AOAC test, dms, LLI. b. 1.95 2.05 2.75 2.05 AOAC test, dms, LLI. b. 2.05 2.75 2.75 AOAC test, dms, LLI. b. 2.20 2.35 2.75 AOAC test, dms, LLI. b. 2.20 2.35 2.75 AOAC test, dms, LLI. b. 2.20 2.35 2.75 AOAC test, dms, LLI. b. 2.30 2.45 2.75 AOAC test, dms, LLI. b. 2.50 2.75 AOAC test, dms, LLI. b. 2.75 2.75 A	150 AOAC teal, dms., L1,L, b. 1,85 1,95	C.I., L.L. Works	.55	_	130
200 AOAC test, dris., I.I.I. b. 2.05 2.75 2.55 2.55 2.55 AOAC test, dris., I.I.I. b. 2.20 2.35 2.55 AOAC test, dris., I.I.I. b. 2.30 2.45 2.55 2.65 2.65 2.65 2.65 2.65 2.65 2.6	175 AOAC test, dms., LLI lb. 1,95 2,05	gran. dms., c.l., t.l., worke lb		-	1.35
255 AOAC lest, dris., [.1.1. b. 2.10 2.25 2.35 2.56 AOAC lest, dris., [.1.1. b. 2.20 2.35 2.45 300 AOAC lest, dris., [.1.1. b. 2.50 2.45 300 AOAC lest, dris., [.1.1. b. 2.50 2.65 300 AOAC lest, dris., [.1.1. b. 2.50 2.65 36%, dris., [.1.1.	200 AOAC test, dms., l.t.l b. 2.05 2.15	por. bgs., c.j., j.L. worke lb.		_	133
250 AOAC test, dms., Lt.I. b. 2.20 2.35 2.45 300 AOAC test, dms., Lt.I. b. 2.50 2.45 300 AOAC test, dms., Lt.I. b. 2.50 2.65 antisn violef (see Methyl roseantine chloride). Faranio, syn., 90-92%, dms. b. 5.25 45 3.50 5 45 46.00 5 50 5 50 5 50 5 50 5 5 5 5 5 5 5 5	225 AOAC test, dms., f.f.l lb. 2.10 2.25	powd. dms. c.l., t.L. works th		-	1.0
275 AOAC test, dms., Lil.L. lb. 2.30 2.45 300 AOAC test, dms., Lil.L. lb. 2.50 2.65 31tan violet (see Methyl roseantine chloride). srainl, syn., 90-92%, dms. lb. 5.25 515 525 515 525 515 525 515 525 515 525 515 525 515 525 515 51	250 AOAC test, dms., Lf.I ib. 2,20 2,36	Hexane, Indust., tanks, works, cal		1 15	191
300 AOAC test, dms., LLL. lb. 2.50 2.65 antian violef (see Methyl roseantine chloride). aranjol. syn., 90-82%, dms. lb. 5.25 - strainium oil, Morocosen lb. 46.00 - Bourbon. lb. 66.00 - Chinese lb. 23.00 - Egypt lb. 22.00 - Chinese lb. 22.00 - Egypt lb. 22.00 - Strainium oil, Morocosen lb. 66.00 - Chinese lb. 23.00 - Egypt lb. 22.00 - Strainium oil, Morocosen lb. 66.00 - Chinese lb. 23.00 - Egypt lb. 22.00 - Strainium oil, Morocosen lb. 66.00 - Chinese lb. 23.00 - Egypt lb. 22.00 - Strainium oil, Morocosen lb. 22.00 - Strainium oil, Morocosen lb. 23.00 - Hexyl mai hacryfate, dms., c.l., works. lb. 75.Va - Hexylene glycol, tanks, clivd. lb. 50 - Hexylene glycol, tanks, clivd. lb. 50 - Hexylene glycol, tanks, clivd. lb. 30.00 - Hexylene glycol, tanks, clivd. lb. 30.00 - Homatropine hydrobromide, USP 10 - 250 oz. lots, bots. oz. 10.25 11.30 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - Homatropine methylbromide, USP 10 - 250 oz. lots, bots. oz. 9.70 10.70 - 1	275 AOAC test, dms., f.f.l lb. 2.30 2.45	95%, tanks, Lo.b. Houseon			19
Second S	300 AOAC test, dms., LI.Llb. 2.50 2.65	TOX	1.12	_	1399
Parallel Sym. 10-12-25, dms. 10-15-25	antan violet (see Methyl roseanline chloride).	HHOXEOOL OVER tanke to b		_	
Same	eraniol, syn., 90-92%, dms b. 6.25 -	Hexyl elcohol, mixed feamers			
Syn. 50-80%, dms. 10	nar., 90-9274, dms	LANKA	.32		141
Sourbon		p-Hexyl malhacrylate, dma., c.i.,		. :	1.1
Section Sect		WOrks.	.7514		
Figure 1. 22.00 - Hexystesorcinol, USP, drns., 25-lb. lots or more, in. et al	Chinago in 02.00 -	Haxylena glycol, tanks, divd. In			
Turkish (see Palmarosa ol)		Hexylresorcinol, USP, drug., 25-th, free		·	
remitacetsis, dms. b. 5.44 6.00 remitacetsis, dms. b. 10.95 remitacets, dms. b. 10.95	Turkish tesa Relmantes of	or more, in, alid	30.00	1	10
net; dins	randerelate dos	i Homatropine hydrobromide, LISP 10.	14.		1311
rényl formète, syn., dms	net rims	100-oz, lots, bots	10.26	11.30	4.61
sonits, g.p., butk, c.i., f.o.b. 86 Horehound herb, bls	rend tomate, evo., dms b. 6.60 -	Homatropine methylbromicia, USP 10.	,,		- 1 月 市
Sonite, g.p., butk, c.i., 1.0.0, 80	net dies	250 oz. joja hote	9.70	10.70	1111
nenze, Utah ton 180.00 - Hydrata 85% 1.1. 1rt	and an play of top so.	Morenound harbulae	. 28	28	1 i
elects, same besis ton 180.00		I MYCIRZINA hydrola QEW, 14 4 4-4	77.		· - 116 11
ger Cochin, bgs	slects, same basis ton 180.00 -	840	1.54		' [F]
hinese sloed b, 56 70 Hydrodio acid, puril, 47%-57%, 2 ger oil, Chrisse b, 7,50 Hydrodio acid, puril, 47%-57%, 2 h, 7,50 Hydrodio acid, puril, 47%-57%, 2 h, 7,50 h, 7,5	ger, Cochin, bgs	55-gal. dma. I.L. Irt. elid, lb.	1.81		. 101
geroli, Chinese Idio 35,00 44,00 Chya: Lo.b. Works Ib 7,50 Indian Idio 45,00 48,00 Hydroshie tyl eldonoti, tech, sorid geroleoristi, IN bots Ib 30,00 time; cl., 1,0,b, zone 1 Ib 35 Isinks, 1,0,b, zone 1 Ib 36 Isinks, 1,0,b, zone 1	hinese sloed	Hydriodic acid, purif., 47%-57%, 2-			1.1
Indian NF hote. B. 30.00 48.00 Hydroshie tyl elbohol, tech, sollid, ger olsonstin, NF hote. B. 30.00 time, cl. 1.0.b, zone 1 lb, liber's sell (see Soditim sulfate). B. 80 Isane, cl. 1.0.b, zone 1. b. 80 conic acid tech. 50% ima, cl. 1.1. B. 80 f isane, cl. 48% cms, cl. 1.1. b. 80 f isane, cl. 50% cms, cl. 1.1. b. 80 f isane bissis; b. 50 f isane bissis; b. 44 Hydrochloric sold, anywe (see byttmine of technical controls of the controls of	geral, Chinese	ctys., i.o.b. works lb.	7.60		. 1
ger olsorestn, NF 3018	1 Indian kilo 45.00 48.00	Hydrosoletyl elechol; tech., solid.	· · · · · ·	9.28, 70	
uper's sen (see scorum suratrs). conic sold sech 50% dras, cd., 1.1. i.o.b. works b. 50 Hydrochloric sold, 48% dras, cd. 1.1. b. 38% histochloric sold, anywe (see butterne of sectors). Hydrochloric sold, anywe (see butterne of sectors).	ger cleoresin; NF bols	dins. cl., f.o.b. zone 1 . lb.	85		
Conce and more orms, c.y., t.h. Lo.b. works D. 50 Hydrochis acid. 48% drins, c.l. t.l. 38% Hydrochis balls D. 44 Hydrochic sold, arryol (see byttman of the state)	LIDON & SET (500 SOCIETY SURETO)	Banks, I.o.b. zone 1	.60	明益がある	. 11
ankb, same basis 10.00 10.	COMO BOO TECH. DUTA OTTE., C.L., I.I.	riyorooromic acid, 48% dms., c.l. t.l.,	31.	15	. 41111
THE BUILDING PROPERTY OF THE P	LO.D. WORKS	1.0.b	3814		4111
。 文武的编辑:2.25.25 高级者的1.35 (1917) 第14 (1916) 第14 (1916) 2.25 (1916) 2.25 (1917) 2.25 (1916) 2.25 (1916) 2.25 (19	TIKE BUILD DOME PARTY AND THE	reversionic sold, annyd, (see Hydrogen C	hioride).	114: 72:	

PRICES WEEKENDING OCT. 24, 1966 State of the state of t	•					
## CONTENTION 19 150				Iron, purif., powd., pale, 10-100-b.	1.00	_
PRICES WEEKENDING CCT. 24, 1986 WEEKENDING CCT. 24, 1986 Week (See 1)	ALIELIA			Iron ovide, black, syn., bos., O.L., ITI.		7514
PRICES WEEK-ENDING OCT. 24, 1988 WEEK-ENDING OCT. 24, 1988 WEEK-ENDING OCT. 24, 1988 Wet of the send of the se	I : MP MILL.			squaldbas., cl., fil.	.ODYZ	
### PRICES ### PR	VIILIVIIV			aguaid	.68	.781/2
### A PROVINCE COT. 24, 1986 ### Creckflorure and d. 20' Bs. tanks.				fron oxide, metallio prown, I.O.I., 1935,	.13	.15
### A PROVINCE COT. 24, 1986 ### Creckflorure and d. 20' Bs. tanks.	DDIACE		l	iron oxide, nai., red., dom., pure, bgs.,	275	40
### A PROVINCE COT. 24, 1986 ### Creckflorure and d. 20' Bs. tanks.	PRILES		1	kon coids, vellow,		-
### AFEKE KINDING OCT. 24, 1986 ### directriture exist, 20* Bas Innits, works, East Innits on \$6.00 70.00 bid/ceast Innits on			- 1	syn., bas., a.l., frt. equald ID.	.63	.71
Carbonic and di, 20° Bs. lanks. works, East. to 00 80.00 70.00 Bull Coest. to 00 80.00 80.00 Bull Coest. to 00 80.00 70.00 Bull Coest. to 00 80.00 70.00 Bull Coest. to 00 80.00 70.00 Bull Coest. to 00 80.00 Bull Coest. to 00 80.00 70.00 Bull Coest. to 00 80.00 80.00 Bull Coest. to 00 80.00 Bull Coest. to	WEEK CHIDING OCT 94	1096		from oxide, buff, nat., dom, ogs., c4.	.76	.90
### 1500 1500	WEEK-ENDING OCT. 24,	טטסו		riarie	.50	-
## 1.00	drochloric sold, 20° Be. tanks.		05.00	olhar shadas, bgs., c.i., in.	.50	.55
Guil Cosst					1.40	-
selection of the control of the cont	Buit Coast ton		106.00	ald		
Micropart Decomposition			76.00	Isohomeol, 100 lb, drys b.		
Mest Coasi	Midwestton		70.00	isobutyi scetate, dins	.00	
decide depending on proclace and leastion, directions depending on proclace and leasting decorations, as shoot micron area. A construction of the	West Coast ton 1	00.00		frt. alld		
### disconsisted actiles, micronized, dens. 28 holes or more, grams and consume, alcohol, micronized, dens. 28 holes or more, grams and ches. 28 holes or more, grams dens. 28 holes or more grams dens. 28 holes	OTE: Prices vary and are either Iraight	collect fre	sight equal-	Isobutylacrylata, tanks, tri. and. E 10.		
droduce sect, special control micronized, or control sect, squiscost 70 micronized, special control micronized, or control sect, squiscos 70 micronized, squiscos 70 micronize	drocortigone acetale, micronized,	waten.		Isobutylene, 99%, tanks, I.o.b.		_
droits actid, anythytic (see Pyriorgen Bouride) in a rik a . 1 a . b . 1 ri . agustid 1 a . b . 1 ri . agustid 1 a . b . 1 ri . agustid b . 3 a . 3	dme., 25 kilos or more . gram-	.70	-	techutyi feobulyrate, lanka, f.C.b.	.32	-
including actic, amped, least Hydrogen Bloods (ed. appears of the profession) actic, aqueous. 70% tank 6. 1.0.b. 171. squadd. 100bs. 1.0.b. 171. squadd. 100bs. 1.0.b. 171. squadd. 100bs. 1.0.b. 171. squadd. 100bs. 1.0.b. vortex. 100bs. 1.0.b. 1.0.b. 1.00bs. 1.0.b. vortex. 100bs. 1.0.b. 1.00bs. 1.0.b. 1.00bs. 1.0.b. vortex. 100bs. 1.0.b. 1.00bs. 1.0.b. 1.00bs. 1.0.b. vortex. 100bs. 1.0.b. 1.00bs. 1.0.b. 1.00bs. 1.0.b. 1.00bs. 1.0.b. 1.00bs. 1.0.b. 1.00bs. 1.00bs. 1.00bs. 1.00bs. 1.00bs. 1.00bs. 1.0.b. 1.00bs. 1.00bs	dma., 25 kilos or more . gram.		-	works		-
Schuling fast Schuling fas	droffuoric acid, anhyd. (see Hydrogen fly	uoride)		Isobutyl methacrylate, tanks, divd D.		3.50
Sacrophysics Sacr	tanke., f.o.b. trl.			Isobutyfaelicylate, dms	3.45	-
works, 30% basis	equald10 Olds.	43.00	-	leobutyraldehyde, tech., dma., c.l.,	.43	-
tridopen brommide, anhyed, order, exister, 20,000-01s, 1.0.b. works and cropen chroniced, anhyed, order trailing and cropen chroniced, anhyed, short trailing and trailing and cropen chroniced, anhyed, short trailing and traili	works, 30% basis ton	-		tanke, divo	.35	-
30,000-bbs. 1, bb. works. 1b. drogen-binding arryds. 50-bb. cyts. c.t., works. 1b. 55-c. c.t., works. 1b. 57-c. c.t., works. 1b. 50-c. c.	and the same of section is a section of the section	90.00	210.00			:05
C.L., works	30,000-lbs., l.o.b. workslb.	7.00	-			
## 1900.00 lbs. ayear		.85	-			-
Barriage Children Barriage	600-lb. cyls , c.t., same basis lb.	.62	-			5.60
100,000 lbs. a years				individual parties and a second	200	-
retrogen chlorides anhyd tanhs, works	100,000 lbs. e year , lb.		-		.49	-
Works		-27	_			-
### Works	works	70.00	-		.01	-
c I, I.D. b., if. equal. ib. 3875 - cl., I.D. b., if. equal. ib. 3225 - solvent and ib. 3227 - solvent and ib. 322	works	.50	-	Jollat, Ill., min, frt. alid b.		
rdrogen parcoids, 35% toch, tanks, works, ft. equald b		2275	_			-
50% tankcars if equaid				Isopropyl alcohol, arrhyd., 99%, tanks.		
70% Lankcars Int. equald. 6. 45 - drog early direct in the quald. 6. 45 - drog early direct in the quald. 6. 45 - drog early direct in the quald. 6. 45 - drog early direct in the quald. 6. 45 - drog early						-
### seeds a lanks, works.	70%, tankcars int. equald fb.		-	refd., 91%, lanks, dvd gel	1.25	
170 b. cylinders		.12	.13			-
ears, C.I., L.I., divid	170 lb. cylinders		-	Isopropylamine. (see Mono-, DI- or Tri-).		4.50
tech., dms, c1, dwd. b.		2.54	-			
Belle, W. Ve b	tech.,dans, c.l., divd	1.95	-			
1.0 b	Belle, W. Va b.	.491/2	-			
Addroxybenzene sulfonic acid (see p Phenoisulforic acid) Algoroxybutyl methylcelluloae (viac. 12,000 cp.) 501b. bags. II., cl. 30,000 fb. min., divd., zone 1. 2.10 Algoroxydphenylamins, dms., ib. All 0		.83	_			
12.600 cps.) 601b. bags, il., cl. 30.000 b. min., divd., zone i	Hiydroxybenzene sulfonic acid (see p-Pi		onic acid).			
30,000 fb. min., divid., zone b. c. b. c. b. c. c. c.	iyaroxyouiyi mejnyiceliuloza (visc. 12,000 cos.) 601b, baas, il., cl.			V		
sydroxyclyconellal dimethyl acetal, dms. b. 16.55 - lifydroxyclphenylamina, chris., I.I., t.o.b. works. b. 4.10 - lydroxyclphenylamina, chris., I.I., t.o.b. works. b. 4.10 - lydroxyclphenylamina, chris., I.I., t.o.b. works. b. 4.10 - lydroxyclphenylamina, chris., I.I., t.o.b. works. b. 13.80 - lydroxyclphenylamina, chris., b. 13.80 - lydroxyclphenylamina, b. 13.80 - lydroxyclphenylamina, b. 15. 14.80 - lydroxyclphenylamina, b. 15. 15.50 - lydroxyclphenylamina, b. 15. 15.50 - lydroxyclphenylamina, b. 15. 15.50 - lydroxyclphenylamina, b. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	30.000 fb. min., divd., zone	9 10				_
drs. b. 16.85 Hydroxydipherylamins, chris., I.I., Lob. works b. 4.10 ydroxydironellat, ratural, drns. b. 13.60 extra grade, drns. b. 13.60 extra grade, drns. b. 14.80 syn., drns. c. b. 120.00 Kaolin, water washed, hully calcined, bege o.l., i.o.b. Georgia. bron 255.00 NF pwd., colloidal, bactaris controlled, 50 b. bags, 5,000 b. bags, 14. c.l., 30,000 b. min., drnd., zone i b. 2.87 Hydroxypopyl methylcellulose (visc. 4,000 birough 16,000 cps) 50 b. bags, 11. c.b., Georgia. bron 75.00 - No. 2 coating bolk. cl., i.o.b., Georgia. bron 75.00 - No. 2 coating bolk. cl., i.o.b., Georgia. bron 75.00 - No. 3 coating bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron 75.00 - No. 4 coeting bolk. cl., i.o.b., Georgia. bron	ydroxyci/conellal dimethyl acetal,	≥.10	_		475	
Lob works b. 4.10 - ydroxyctronellat, ratural, dms. b. 13.60 - pure, dms. b. 13.60 - pure, dms. b. 13.60 - pure, dms. b. 14.80 - syn, dms. b. 14.80 - syndroxypothyl celsulose (visc. 5,000 through 16,000 pb. b. bags, t., c.l., 30,000 ib. min, dwd. zone 1 b. 2.87 - Hydroxypopyl methylcellulose (visc. 4,000 through 16,000 cps) 50 ib. bags, t., c.l., 30,000 ib. in. dwd. zone 1 b. 2.17 - Hydroxypopyl methylcellulose (visc. 50 through 100 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.17 - Hydroxypopyl methylcellulose (visc. 50 through 100 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.17 - Hydroxypopyl methylcellulose (visc. 50 through 100 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.64 - B-Hydroxypopyl nethylcellulose (visc. 50 through 100 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.64 - B-Hydroxypopyl nethylcellulose (visc. 50 through 100 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.64 - B-Hydroxypopyl nethylcellulose (visc. 50 through 100 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.64 - B-Hydroxypopyl nethylcellulose (visc. 50 through 100 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.64 - B-Hydroxypopyl nethylcellulose (visc. 50 through 10,000 cps) 50 ib. bags, t., c.l., 30,000 ib. min. dwd. zone i b. 2.65 - B-Hydroxypopyl nethylcellulose (visc. 50 through 10,000 cps) 50 ib. bags, t., c.l., 30,000 ib. dwd. zone i b. 2.67 - B-Hydroxypopyl nethylcellulose (visc. 50 through 10,000 ib. dwall nethylcellulose (visc. 50 through 10,000 ib. dwall nethylcellulose (visc. 10	drts	16.55	-	Jepan wax, ca		5.60
ydroxydrogrefiel, ratural, driss. b. 13.60 - pure, driss. b. 13.60 - pure, driss. b. 13.60 - pure, driss. b. 14.80 - pyre, driss. b. 14.80 - pyre, driss. b. 14.80 - pyre, driss. b. 15. pydroxyethyl cestulose (visc. 5,000 through 45,000 cps.) 50 p. begs, Lt., c1, 30,000 lb. ritin, divid., zone 1 b. 2.73 - tydroxypropyl methylcellulose, pre- mium, Li S. P. (visc. 4,000 through 16,000 50 lb. bags, Lt., c1, 30,000 lb. min., divid., zone 1 b. 2.87 - tydroxypropyl methylcellulose, lts. P (visc. 50 through 100 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., chvd., zone 1 b. 2.99 - tydroxypropyl methylcellulose (visc. 4,000 through 16,000 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., chvd., zone 1 b. 2.17 - tydroxypropyl methylcellulose (visc. 50 through 100 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 b. 2.17 - thydroxypropyl methylcellulose (visc. 50 through 100 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 b. 2.64 - tydroxypropyl methylcellulose (visc. 50 through 100 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 lb. 2.17 - thydroxypropyl methylcellulose (visc. 50 through 100 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 lb. 2.17 - thydroxypropyl methylcellulose (visc. 50 through 100 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 lb. 2.17 - thydroxypropyl methylcellulose (visc. 4,000 through 16,000 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 lb. 2.17 - thydroxypropyl methylcellulose (visc. 4,000 through 16,000 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 lb. 2.00 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 lb. 2.00 cps) 50 lb. bags, Lt., c1, 30,000 lb. min., divid. zone 1 lb. 2.00 cps) 50 lb. dividiant value washed, fully calcined, bege 01, Lo.b. Georgia lb. kaoin, water washed, fully calcined, bege 01, Lo.b. Georgia lb. kaoin, water washed, fully calcined, bege 01, Lo.b. Georgia lb. kaoin, water washed, fully calcined, bege 01, Lo.b. Georgia lb. kaoin, water washed, fully calcined, bege 01, Lo.b. Georgia lb. kaoin, water w	Lo.b. works	4.10	-	Jojoba oil, 55-gal. dma., f.o.b. Arizona		
pure, dms. b. 13.60 - sym, dms. b. 14.80 - sym, dms. c. l. sym,		8.40	_	Juniperbetry off, Italian kilo		-
Syn.dms.	pure, dms b.	13.60				
hydroxyethyl caltulosa (L., divd b. 2.07 2.12 hydroxyethyl methylcaltulosa (visc. 5,000 through 45,000 cps.) 50 b. bags. Li., c1., 30,000 ib. active. 4,000 through 15,000 jb. bags. Li., c1., 30,000 b. bags. Li., c1., 30,000 b. min., divd., zone 1			:			
5,000 through 145,000 cps.) 50 b. bags, t.l., c.t., 30,000 lb. distribution of the total control of the total cont	lydroxyethyl cetulosa, Lt., divdb.		2.12			
b. bags, Lf., c1, 30,000 lb. min., divid., zone 1						
tydroxypropyl methylcellulose, pre- mlum, U.S.P. (visc. 4,000 through 16,000) 50 lb. bags, Lt., cl., 30,000 lb. min., divd., zone 1	b. bags, tl., c1, 30,000 lb.	בל פ	_	1 1		
through 16,000 50 b. bags bege 01, 1.0.b Georgia ton 255.00	tydroxypropyl methylcallulosa, pre-	4-10	-			
Lt, cl., 30,000 lb. min., divd., zone 1	mum, U.S.P. (visc. 4,000 through 16,000 60 lb. bacs				255 00	
Hydroxypropyl methylcekulose, U.S.P (visc. 50 through 100 cpe) 50 (b. bags, LL, cl., 30,000 lb. min., divd., zone 1 b. 2.99 - No. 2 coating ton 75.00 - No. 2 coating ton 75.00 - No. 2 coating ton 75.00 - No. 3 coating ton 75.00 - No. 3 coating ton 75.00 - No. 4 coating ton 75.00 - No. 5 coating ton 75.0	LL, c.1., 30,000 lb. min., divd.,	407		NF pwd., colloidal, bactarie con-		_
(visc. 50 through 100 cpe) 80 Ib. bags, t.L. al., 30,000 Ib. min., drvd., zone I ib. 2.99 Hydroxypropyl methylceliulose (visc. 4,000 through 16,000 cpe) 80 Ib. bags, t.L. c.L., 30,000 Ib. In., drvd., zone I ib. 2.17 Hydroxypropyl methylceliulose (visc. 50 through 100 cps) 50 Ib. bags, t.L. c.L., 30,000 Ib. min., drvd., zone I ib. 2.64 B-Hydroxyquincline (see Oxyquincline) Hypophosphorous acid, punt., 50% Kaolin, uncalcined, No. 1 coating, bulk, c.L., 6.b., Georgia ton 94.00 - No. 2 coating ton 75.00 - No. 4 coating	Hydroxypropyl methylcellulose, U.S.P	4.01	•	lota	.94	_
min., drvd., zone 1 b. 2.89 No. 2 coating ton 75.00 No. 3 coating ton 75.00 No. 4 coating ton 58.00 ton 68.00 No. 4 coating ton 75.00 No. 4 coatin	(visc. 50 through 100 cps) 50			Kaolin, uncalcined. No. 1 coating, bulk,		_
trydroxypropyt methylcellulose (risc. 4,000 through 16,000 cps) 50 Ib. bags, t.L., c.L., 30,000 lb. ln., chd., zone I Hydroxypropyt methylcellulose (visc. 50 through 100 cps) 50 lb. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-Hydroxyquinoline (see Oxyquinoline) 8-Hydroxyquinoline (see Oxyquinoline) 4-Hypophosphorous add, puni., 50% 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-Hydroxyquinoline (see Oxyquinoline) 8-Hydroxyquinoline (see Oxyquinoline) 8-Hydroxyquinoline (see Oxyquinoline) 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-Hydroxyquinoline (see Oxyquinoline) 8-Hydroxyquinoline (see Oxyquinoline) 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb. min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., min., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., dhd., zone I 8-B. bags, t.L., c.L., 30,000 lb., dhd., zone I 8-B. bags	min., cityd., zone 1 lb.	2.09	-	c.l., f.o.b., Georgia ton		-
lo. begs, 1.L., 2., 30,000 lb. in., chrd. zone i 2.17 lber, gen,i purposa, earna bestivicalitiose (visc. 50 through 100 cps) 50 lb. begs, t.L., c.l., 30,000 lb. min., chrd. zone i 2.64 detaminated weter washed, uncathed part grade 1 micron avg., earna basis ton 182.00 dry.grd. elifloeted soft, same bestivication and the control of the contro	HACKGRATADUSTAL WEITHICOGNICS LAISC			No. 3 costing	73.00	-
Hydroxypropyl methylcallulose (visc. 50 through 100 cps) 50 fb. detaminated water washed, uncat- begs, Lt., cl., 30,000 fb. min., b. 2.64 - dry.grd. arm basis	lb. bags, t.L., c.L., 30,000 lb., in.,	845		No. 4 coeting ton	70.00	-
50 through 100 cps) 50 fb. bags, tt, cl., 30,000 fb. min., divd., zone 1	Hydroxypropyl methylcollulose (visc.	2.17	-	siston	58.00	-
divid. zone	50 through 100 cps) 50 fb.			determinated water washed, uncal-		
Hypophosphorous acid, punt., 50% 68ton 60.00 _	divd., zone i	2.64	-	avg., same basis ton	182.00	-
drie. C.L. works b. 3.18 Karayarayan No. 1 pound bota in 0.00	o-mydroxyguinolinė (see Oxyguinolinė) Hypophosphorous add. purkl., 50%			cry-gra. Airfloeted soft, same ba-	80.00	_
No. 2, powd., bbs b. 1,95 _	dms., c.t., works	3.15	_	Karaya gum, No. 1, powd., bble lb.	2.25	_ =

	c.l., f.o.b., Georgia ton	94.00	_
	No. 2 coatington	75.00	
1	No. 3 costing ton	73.00	_
	No. 4 coeting ton	70.00	_
	Mer, gen,i purposa, aama ba-		
	skston	58.00	_
	detaminated water weahed, uncal-	00.00	-
	cined paint grade 1 micron		
	avg., same basis ton	182.00	
	dry-grd. airfloated soft, same ba-	102.00	-
	eiston	60.00	
	Karaya gum, No. 1, powd., bble lb.	2.25	-
	No.2, powd., bbtsb.		-
	Kotanuta, bgs	1.95	
	receasing offerences.	.50	.53
			البسالية
	1 B		
<u> </u>	\ _		
•			
	Laguer disease petrological 3 top		
	Lacquer dituani petroleum, 140F,-		
0	200F. b.r., Lo., New Jersey		•
0	and New York gel	1.25	-
9	Houston, Texas gal.	1.29	-
_	1. acquer diluent, petroleum 200F		
	240F. b.r., tankcers, New		
XO	York and New Jersey gal.	1.20	1.25
	Houston, 7ex	1.12	_
	Lactic acid, food grade 88%, I.o., 1.o.b.		
	worksb.	1.06	-
	50%, I.a., frt. equald b.	.62	-
	tech., 88%, Lo., frt. equald ib.	1.03	_
	Lactose, edible, reg. bgs., c.i.,		
10	WORKEh	22	.29
	LACKOSO, USP, reg. dms., c.l., t.L. ht.		120
	ROUND	- 22	.89
	Lactosa, USP, abray dried, box. 11		.09
15	frt. equaldb		
		1. 100	. •

	o and toward tool 53) NNa . Int.		ı	Lithium hydride, c.l., t.L., dlvd. 10,000 or	-
		5.70	- }	Lilhium hydroxide, menohydraje,	
- [1		1.18	1.25	I lithum hypothodia et al modes.	
ı	phermeosulical, 400-ib. dilis.	1.16	- [Lithium metal, 1,000-lb, lots or more	-
	tech., (under 2% 1.1.8.), 400-0.	1.08	113	Lithium nitrele, lech., dms., 100-b.	١.
	ord (Que Olla, Fals & Waxes market report.	.34		Uthium elearete, bgs., c.L. irl. aid. ib.	
	Lard off, No. 1, dms., c.l., l.o.b lb. tanks, same basis lb.	28		Lithium sullete, anhydrous, t.l. dvd. lb. 30 tithol rad toner, barlum, dms., trt.	
- 1	Lard off, extra, while-strained, cris.	.41	-	and	
	tanks, same basisib. prime, burning, dms., c.l., same ba-	.33	- [Uthol rubine loner (red 57), resinated.	0 -
1		.43	- 1	dms. irt. aidib. 65 Litsea/cubeba oil, dmsib. 25	
	prime, burning, tanks, same ba- sisb.	.35	-	Locust beangum, powd., bgs lb. 60	0 67
	NOTE: 300 MI, rad. I Vic. higher, except 16 Coast, 3c, higher.	_		Lycopodium, 50-lb. dms	
13	Leural jeaves, 7urkish	3.00 3.85	3,10	grade, 10,000 lbs. dlvdib.	35 II
- 11	auric acid. comi., pure DQS., C.l ID.	.85	.71		
- 1	Lauric sidehyde (sidehyda C-12). dmsb.	7.75	-		
	n-Lauryi methacryleta, dms., c.l., tl., works b.	1.72	_		
	Lavendin oil, Abrielle, 30-32%, drne. b. Levender flowers, ord	8.50 .65	.75		
- [medium, ble lb.	.60	.90 1.19		_
- [select. ble	1.10			96 5 80 6
	40-42%, ester, chs	9.00 13.00	13.00 14.00	Magnasia, tech., light, neoprene-	
-1	Lesd acetata, puril., flaka. 400-b. dme., worksb.	.48	_	Magnesia, syn., lech., chemical-	.25
	tech., liske, t.l., 400 lb. dms.,			grade, bulk, c.1, t.1 works	100 .
- [works	.37	-	bags, c.l., t.l., same basis ton 365 deadburned, bulk, same be-	.00
1	ahip,t. pt., t.o.b,	.87 bonate).	-	sis ton 392	
	Lead chloride, 400-lb. dms., works. lb.	3.25	-	Magnesia, nat., tech., heavy, 85%, 150	1100
ı	Lead dioxide, tech. powd., 200-ib. dms., tl., worksb.	.68	.70	Mesh, bulk, c.l., t.l., t.o.b.	200 -
	Leed Ruoborate, Iq. conc., dms., Ll., works, trt. equald lb.	.65	_	90%, 325 mesh, same basis ton 260 Magnesium promide, 80-lb. dms., hex-	5.00
- 1	Lead metal, divdb. Lead monosificate, miled, bga., cl.,	.24	-	ahydrateb.	2.50
- 1	coerse, bge., c1, same basisb.	.58½ .57½	_	Magnesium carbonate, light, tech. bgs., c.t., t.t., worke, 1st.	
-	Lead naphthenate liq., 24% Pb. dms.,		_	USP, lite bgs., c.i., same basis ib.	13
	frt. alid	,93	-	USP, heavy, bgs., c.t., same basis fb. Magnesium chloride, anhyd., 82%,	\$1
- }	Lead peroxide (see Lead dloxide).	.3214	-	liske or peoble dms., cl.,	,12%
1	Lead red, 95% Pb ₃ O ₄ , or less, bgs. c.L., worksb.	.37	_	Magnesium chloride, hydrous, 99%,	
- 1	Land red, 97% Pb ₁ O ₄ , bga, c.l.,		_	Magnasium gluconate, 100-lb. dms.	.14%
- 1	worksfb. Lead, red, 98% Pb ₂ O ₄ , bgs., o.l., same	.37%	-	t.o.b. works, Eb. Magnasium hydroxids, NF, powd.,	425
- 1	besie	,37½ 18).	.401/2	dma., c.l., t.l., works irt.	.78
Ų	Lasd silicochromate, bgs., c.l., worksb.	.35		equaldb. Magnesium lauryi sullata, lanks, i.o.b.	22
	Lead suffets (see Lead, blue, basic suife		ead, white,	works	
	basic suffate) Lead, white, basic carbonal a, bgs., c.L.			10,000-lb. lefs or more. t.o.b. Freeport, Tax lb.	1.53
- 1	Lead, white, basic, sticate, bgs., c.t.,	.62	•	die casting alloys	1.29
	same basis	.87	-	in done . 1.1. works	.32
_	sama basisb.	.95	-	Magnasiumoxide, USP, light, bgs., c.l., works, Irt. equald , ib.	1.85 1.54
- 1	rel. dms., tcl., works lb.	.36	-	Megnesium oxide, tech, (see Magnesia).	Lan
	unbleached non-ret. dms., i.c.l., serne besig,b.	.34		Magnasium phosphate, Inbasic, tech. 60-lb, bgs., I.o.b b.	1.00
	sdible, tech. bleschad, non-rel., dms., tl., worksb.	.28	_	Magnesium silicato (ace Taic). Magnesium silicato liuorido, bgs., c.t., i.t.	
	unblaeched, non-ret., dma., I.I., same basis	.28		works	.1845
	Lemon off, Argentine	16.00		Magnesium steorale, bulk I.I lb. Magnesium suitete 10% Mg. (apsom	
	Galif., USP, dms fb.	9,00 23,8	9,50	molis), lech. bgs., i.i.,	14
	Lemongrass oil, Indian, dimskile	12.50 11.25	-	bulk, same basis	.134
	di-Leudne, dras., 1 kilo workskilo	2,25 80.00	80.00	ISP CIVAL DUK BATTEDOS . TV.	.14%
	cicorce root, whole, bts	.40	.60 .90	Magneelum suitate, 17% Mg. (syn- lhotlo monohydrate). lech.	.80
	powd, bla	.95	-	CP, same basis	1.25
	Lignosullonate (see under Ammonium lonale).	or Sociul	II kgnin evi	Magnosium suitate, arrivorous, or	1.78
	Lime, chemical, peoble (quicklime), bulk, 50,000 lbs., works, t.o.b.			Magnatum silisis illingility town	A5
	plants	39.00	45.00	Magnoslum trisilicato, USP, powd., fig.	.38
	baaiston	48.00	50.00	dms. 6.000-ib. lots.	.23
	Lime, NF, purit., 100-lb. dma lb.	54.00	67.00	Atalethian lesh down I workslb.	1.52
	Lime of, die t., Mexican, drna lb. Haittan, diet., dms lb.	9.00 8.50	-	Moleic acki, cryst., powd., drums, 100 kilos, f.o.b. kilos	3.20
	expressed, dasb.	17.50	-		2.00
	d-Limonena, dmskto	.70	.85	Maleio antryonos, oga., I.I., worker b.	¥2
	Linelaci ex bals de rose of, drns ib. eyn., 98-100% dms., t.o.b. works ib.	6.35 2.93		tanks, works, irt. equal-	.1 1.
	Linelool oxida, syn., 55-gal, dm., ib. Linelyl acetate ex bole de rosa oil, 90-	7.75	-	Mandada of (see Tangerne of, Itelan). Mendada of (see Tangerne of, Itelan).	
3	92%, dms	19.00	21.00		8,00
_	Linelyt benzoats, syn., 55-gal. dms. ib. Linelyt oldnamate, syn., 55-gal.	9.00	-	1018.	45%
	CITIES.	59.85	.7.	Order of the thing to theb.	1.55
	Unalyi lacobulyrata, syn., 55-gai, dmaib. Unalyi lacobulyrata, syn., 55-8ei.	7.75	9.50	Wigudayees Dotals Patricia Aug	. 1.85 . 30
	Lindene, 20% formulation, dme.,	6.50	8.55	Mangenase Caronials, 20,000-	1.05
	89.9% tech., dma., I.I.,	13.10	-	Cate armore works, ib.	
_	Ulyu	9.50	-	Manganese Chloride, anily	7. 61
	Unalyi propionale, eyn., 65-gel.	7.90		Manganess choxide, that, nice how.	200.00
	without leaves bisb.	en en	.85 1.15	1.1 WOLVE	20100
	Lineaed meal (see Oils, Fets & Waxes me Lineaed oil, (see Oils, Fets & Waxes me	narket mr	Ment	Menganese dioxide, syn., cryst., bet	767
25	LINGS ON 14/07 ACCO. CHE., CARRA ' · In	RA.	.67	INTO CHEST OF THE PARTY.	170
	Litherge, com,i., powd., bgs., c.i.,		.62	chemical, ferrite grade,	A
	Lithium bromide, enhyd., dras., ton	.36	.60	Welldauese directions.	110
	Som. same basis	9.27		Manganese hydrate dms. dhd. ib. Manganese hypophosphis, NF, dms.	16
29	L. dwd. powd., bgs., c.l.,	4 86		manganess rippop	4
69	Uliquis Chiorida, Antivol., A. I.			Manganese metal, electrolytic, No. It. chip, bulk, o.l., works.	
_	Soin, dros. of H. Abel	3.32		CITIE C.L. WO'NS TO 6% MEV	bid ii
. '	Lablum fluoride, dms., o.l., t.l., divd. lb.	4.90		Manganese naprid will be great the great three great t	
	and the same of		4. 15.		

-			
	Manganese resinete, fused, 312% Mn. dms. int and int. ib. prede, 614.7% Mn. dms. ib.	.34¼ .42	-
	tunotole, 75%-78% MnSO., 25 kilo bgs., 60-lon cars, chyd.	280.00	_
: :	huk hopper cars, serne casta ton	245.00 330.00	-
• [Manganese talete, No., 6% Min., dma.,	-60	-
-	Married, comi., powd., ome., Cl.,	3.02 .88	.89
675	Nert see 2-Merceptobenzothiazole). WET see 2-Merceptobenzothiazole. WET see 2-Merceptobenzothiazole.	01	.82
10 m	unise bos cl. tl. 40.000-b.	kausie) Krej	
Iù j	man at all same basis	.51% .50	.59½ .58
-	itierine formeldehyde resin, g.p., t.l. it. eld b. molding compounds, coma be-	.56	.60
	se b. Limitades of, crude, tanks, works At- ignic Coast	.11	-
	Guif ports, same basie	.12	-
550 672	regular crystala, spot, cs., bulk	9.75 9.00	7.50
₽-	illercaptonenzothazoto, Dgs., I.I.,	1.25	1.55
:	Verceptobenzothiazyl disutlide t.i., dme., works, irt. efdib. Vercero chloride NF, gran., powd.,	1.33	1.66
	100-b. dns. f.o.b. works. fb. Herourio oxide, red, punti., 100-lb. dns. f.o.b. works	6.50 7.00	- 7.25
!	iach, 100-fb. dms., seme ba-	5.50	7.00
:	yelow, NF, 100-lb. dms., same ba- sis	7.00	7.25
.	ilerarous chloride (see Calomet). Herary, emmoniated (see White precipi	5.50	7.50
N.	Heatylanide, larks, divd	.49	-
	i.i. fri. aqiald	.87 .79	-
* ;	d Nathamphetamina hydrochlorida.	12.00	19.00
	Wethenol, syn., barges, f.o.b. producing point, Guil	4.50	7.00
	Hetenamine feed Hevernothyland hore	.28 nine).	-
2:	Nethorina hydroxyanalogue, dry, 68% activity L., frt. ald b. liquid, 88% activity, 1.L. (rt.	.89	-
4.	ald	.68	-
13	Stated shierate non-ret done	2.05	-
	And, E	9.40	-
:	Hellyl acetoscetate, East, divd.	10.00	-
	Hethy stocked (see Metherson)	66.00	-
45 E	Methylamylatore, tanks, divd	.55 .54V2	Ξ.
13	Methyl harmania de	1.41 .26	2.96
		1.65 .58¥	
FA	Marty bromide, dat, tanks. 140,000 But min, fit alld. Ib. Methybelabes, premium, USP (visc. 400 brough 4,000 cpe) 50 b. bage, il. of, 30,000 lb., min., drd., sons i ib. Martybelabes, premium USP (visc. 15 cpe) 50 b. bage, il., cl., 30,000 lbc., chd., zone 1 ib. Methybelabes, (visc. 400 through 4,000 cp) 50 b. bgs., il., cl., 30,000 lbc., dvd., zone 1 ib. Martybelabes (visc. 15 to 25 cps) 50		
9 :	Methylostaloss, premium USP (viec.	2.73	-
	30,000 be, dvd., zone 1 lb.	2.95	-
5	30,000 be., dvd., 2010 1. b. Wethylothiose (visc. 15 to 25 cps) 50 8. begs. 11. d. 30 000 5	2.24	_
	tiend chiefel zone 1	2.52	_
2	Light discretorm (see 1.1.1 -Trichlornest	.28	-
	terriformatis, dns. ib. May poresol, dns. ib. May poresol, dns. ib. May say issues, tarks, divd, E. ib. May says formatis, pure, porrest, dns. May formatis, pure, porrest, dns.	9.00	<u> </u>
5	Servi superol, 26-b. cns. 10.	.236 3.65	3.80
n: 4	THE Same bear 1	.41 .29	-
0 11	Sch. tarks, works b. Sch. tarks, works b. Leigh leptenol, syn., 55-gal, dms. b. Leigh leptenons, purs, dms. b. Leigh leptenons carbonate, dms. b. Leigh port carbonate, dms. b. Leigh private when the fines feather the	.31 14.50 7.30	=
5H	They provide the land their has	45.00 (raben) 7.30	-
	lies isobutyl carbind less Heathers.	.61	9.40
4	least lactural carbinol (see Methys) armys and tones tanks, divid. th. did, tone 2 (Call).	alcohol). .39 .38	<u>-</u>
1	et. none 2 (Call). dr. none 3 (Rv. of Rockles, exclusing Call). dr. tone 3 (Rv. of Rockles, exclusing Call). lan-isosuperol, 25-tb. cris. b. lan-isosuperol, 25-tb. cris. lan-isosuperol, 25-tb. cris.	.41	1040
0 30	TOPINIVI KALON-	9.80	10.40 ·
	tob	14.00	· _
	bot 500 Blograms, Lo.b. Kilo kenguserhon, tech., 80%, drns., frt.	9.70	- :
9	Allery 2-pyrolices, drie ib.	1.65 3.90	6.40
fr 1	Mirossanina chanie basis ib.	1.32 1.40	Z1,73
	IL IL THE STATE TOOC-ID. Come	5.60	- H
	hed idea height researating chior the chior the chick the chick of Rockles	1.79 ide)	1.94
talking.	Sta, dwd. E. of Rockies ib.	3.25	- :: 1

Melhyl violal toner, tungstated, PTA,			Naphthol arylide red toner deep	
bbis, same basis ib. 4.4Methylene disnilins (p.p-di-	4.70	5.20	ahades, bbis	8.50
aminodiphenyl meth.ns) crude, dma., II., t.o.b	1.76	_	2-Naphthol-3,6-disutionic acid, disodium 1-Naphthol-5-suttonic acid (see L- acid).	7.75 salt (see R
Methylenedi-p-phenylenedi-isocyanstr 4.4di-isocyanste).	2.25 (see diphen)	ylmethane	Nachthylamine authoric miyers and less (ecid).
Methylene chloride, tanks, 4,000 gal.	-		Works. Inch.	940
Methylpentanediol (see Haxylene glyco Mathylphenylpryazolone (see 1- Pheny 5).	.39 }.		2-Nachthylamine-4-8 disultonic acid (see Lau	reni's ack
8-Melhylshmene to b shipping at the		yrazolone-	Neatsfoot oil, 20°F, the tob works	xlas acid).
Methylitionina chiorida isan Methylena	1.38 bha)	-	tanks, t.o.b. works	.52 .47
fb., bgs., c.l., works b	.071/2		30°F, t.I., t.o.b. worksb.	.52 .44
works	.07	-	40°F, dms., t.l., l.o.b. works b. tanks, f.o.b. works b.	.49
bes. c.l. f.o.b works lib	.19%	· - 1	Delivered prices apply on shipments with Philadelphia, Pa.; other areas, 11	an hickory
wallpager, bgs., c.l., l.o.b. works lb.	-1634	=	higher and Weel Coasi 3c. higher Neomycin suitate, USP, non-sterile,	r.
ing grades. FDA, tanks	.62	-	drns., 50-bilo, lote, scrivity ba- ets, divd	75.00
igningling grades FDA tanks	.361/2	.451/2	divd	.522 .598
Mineral oil, white, 50-65 vis., USP light	.381/2	.48	Nerol, tech., dms. fb. perf. grade, dms. ib.	5.30
95-79 vis., tanks, refv	2.38	:	Neroli oli, Tunksian, bots. kilo 16 Neroli doli syn. 55-gal, dms. b.	4.60 0,000.00 7.05
145-155 vis. tenks, retygel.	2.45 2.53	-	Nercin, Bromelin kilo Niechamide, USP, t.I. dma kilo	7.22 9.00
200-210 vis., tanka, refygal.	2.54 2.58	-	Nacin Nr. dms., 5,000 kilos or more,	7.50
Mineral aprile, petroleum ortoriese	2.95	-	feed-grade, 98-99.5%, bgs., same basis	5.10
Houston Tex.	1.83 1.79	1.68 1.79	Nickel acetate, dms., 5,000-lbs. to t1, divd. E	1.82
Mineral spirits, petrolsum, regular, tanks, New Jerseygal.	1.41	1.49	Nickel carbonate, drive., bgs., 5,000- bs. to I.I., dwd. E b.	
Houston, Tex	1.41	1.43	Nickel chloride, bgs., 10,000-lbs. tol J., divd. E	3.45
Molybdenum matel, com.i., powd., 89.9%, dms., works ib.		1.96	Nickel fuoborale, liq. conc., dims., t.l., divd. E	1.18
Molybdenum trioxide, CP, dms., works, 24,000 lbs. or more, lb.	13.50	-	MICKEL METET, BIBCTIC CETTODES, CS.,	1.25
tech., chemical, drns., 24,000 lbs. or more, basie, lb.	5.25	-	Works	3.45
tech, melafurgical, dms. same basis, lb. Motybolic sold (See Ammontum Dimolyb	2.85 2.65	2.85 2.85	Nickel oxide, 75%-79% Ni, dme., 500-	1.19
Monosmmonium phospheis, tert.	(Sele)		ib. lots, f.o.b. works lb. Nickel sulfate, bgs., I.l., divd. E lb. Nicotinic sold (see Nigotin).	2.60 ,80
grade, min. 13% N. 52% P. bulk, c.l., f.o.b. Fig.	48844		Nicotinamide (see Nicotinamide). Nitric acid. 36° Bs., 38°Be, 40°Be,	
Monoammonium phosphala, lech.	156.00	-	42°Be. tanks, c.l., works NF, 100% basiston	405.00
bgs., c.l., t.l., works, trt. squald 100 lbs.	54.00	-	9412% to 88% HNO3, tanks, works.	185.00
tood grade, bgs., c.l., i.l., same ba- sis 100 lbs.	59.25	-	O-Nitroentine, fiske, dms., til.	280.00
Mono-tert-butyl-m-cresol, bulk, t.l., ib. Monobutylamine, bulk, divd	1,68 ,96	1,00	molten, refd., tanks, works ib. molten, tech., works ib.	1.51
Monochloroscetic acid, purif. (see Chio Monochlorobenzene, tanka, t.o.b ib.	,42%	, mono).	o-Miroaniline, oranga toner, bgs., frt.	1.37
Monosthenolamine, tanks, Irf. altd.	.43	.48	p-Nitroenfilms, dms., c.i., t.i., 30,000 b, min., works	1.63
Monoethylamine, 70% squeous tanks, frt. prepaid, 100% basis , lb.	.84	-	o-Nitroanisole, 100-kilo lote, kilo Nitrobenzene, tanks, t.o.b b.	8.75
anhyd., farka, same basisib. Monoisopropanoismina, dms., c.i., frt.	.82	-	o-Nitrochlorobenzene, drna., I.I., a.I., f.o.b.	.82
lanks, same basisib.	.79 .66	-	tantes, same basis	.74
Monoisopropylamine, enhyd., dme., c.l., int. prepaid ib.	.78		elid	1.75 2.50
tenke, same basis	.79	-	Nitrogen solutions, direct application, over 32% N, and mgf. type,	
tained basis frt, equald, b. 25% soln., tanka, frt. sld. 100%	.541/2	-	worksunit-ton, direct application, 19-32%	1.20
40-80% soln., tanks, frt. equald.	.67	•	Nitrogenous sewage sludge, proc-	1,28
100% basis	.831/4	-	ened, bulk, f.c.b. Chicagounit ton.	4.10
fb. or more, trt. sld jb, Monosodium glutamete, 50-lb. bgs.	2.50	-	Chicago	unii e.p.e.
c.l., t.l., dtvd	.76 .85	.80	Mitrogenous tankage, processed, bulk, per unit-ton NH ₃ , Lo.b. Carrol-	
Monosodium phospheta (see Sodiumph Montan wax, crude, Imp., German . lb.	.56 no	.67°	l.o.b. Forbes, Me unit ton	7.00 6.75
dom., Calf., bgs., c.l., i.l., f.o.b.	.61	-	expanded, bulk, a.L., per unit-ton N, Lo.b. Forrestdale, R.J. unit ion	8.35
	1016.00	-	Nitromethane, dms., t.l., divd. E ib. o-Nitrophenol, dms., f.o.b. works ib.	2.37 1.00
Morphine suffete, USP, 25 k lots, . kRo Morpholine, dms., c.l., frt, and. E lb.	1.02	-	p-Nitrophenol, dms., c.l., 1.o.b. works	1.05
fanke, frt. ald., Eib. Muriatio soid (see Hydrochlorio aoki).	.94	-	m-Nitrotoluene, tech., dms., frt. alid. b.	1.16
Musk, syn., ambretta, 25-lb. cns lb. Musk, syn., kelone, dms, lb.	10.75	7.00	o-Nitrotokiene, dms., c.i., f.o.bjb. tanks, same basis	.85 .48
Musik. syn., xylol, dms	3.50 e).	-	p-Nitrotoluene, lach. dme., c.l., works,	.83 .70
Musterd seed, grown No. 1lb, Canadian No. 1 Yellowlb.	.23	-	Nonylphenol, tanks, f.o.b. E. of Rock-	.10
Oriental No. 1 bgs lb, Myrola oli (see Bay oli).	,22		Norephedrine hydrochlorida (see Phen) drochloride)	
Myristio acid, comi., pure, 1.1., bgs lb., tanke	1.80 1,12	<u> </u>	Nutrineg oil, dist., East Indian, NF,	27.00
Mydetica off (see Nutraeg off). Myddi gum, bgs	2.25	-	Nutmege, East Indian, wholelb.	3.15
		:		•
N	٠.			٠.
N	• .		V	<u> </u>
Nachtha, bigh solvency (see 50) yent her	hithe, petrole	um).	Ochre (ees fron axide, yellow, nat.)	· .
Naphtha, high solvency (see Solvent hap Naphtha, petroleum, cleaners (see Clear Naphtha, VMSP, petroleum, tanks,	ACC & CANADAM	úm).	Cootes, Chinese 90% kilo	5.00 5.25
Naphtha, petroleum, cleaners (see Creek Naphtha, VM&P, petroleum, tanka, New Jersey and New York-	ACC & CANADAM	um).	Ocotes offinese 90%	
Naphtha, petroleum, cleaners (see Creek Naphtha, VM&P, petroleum, tanka, New Jersey and New York-	1.29		Cootes omberant or one too Cootes, Chinese 90% kilo -Cotaceand, syn., tanks, f.o.b. bCotaceand, syn., tanks, f.o.b. bCotace, syn., tanks, f.o.b. bCotace, 97% mtp., tanks, f.o.bHouston, Tax. gal.	6,25 .431/2
Naphtha, petroleum, teanser lees Creek Naphtha, VM&P, petroleum, tanka, New Jersey and New York Houston, Tex. gal. Naphthalene, crude, dom., 78°, terks, works. b.	1.29 1.20 22		Cootee ormanium of one too Cootee, Chinese 90% kilo 1-Octaceanol, syn., tanks, f.o.b., lb. 1-Octaceanol, syn., tanks, f.o.b., lb. 1-Octace, 97% mth., fanks, f.o.b. 1-Octace, 97% mth., fanks, f.o.b. Coote electrol martiner's crade, bots.	6.25 .431/2 .70
Naphtha, petroleum, teaners see Creek Naphtha, VM&P, petroleum, tanka, New Jersey and New York- Bouston, Tex. Naphthalene, crude, dom., T&*, tarks, works. Naphthalene, phihallo anhydrida grade, tanka, works. Naphthalene, netrolaum, 80°0.	1.20 1.20 22 234	1.34	Cootes ombers from the Cootes of these 90% kilo 1-Octaceanol, syn., tanks, f.o.b., b. 1-Octaceanol, syn., tanks, f.o.b., b. 1-Octace, 97% sritn., tanks, f.o.b., b. 1-Octace, 97% sritn., tanks, f.o.b., cotyl sloonol, perfurner's grade, both, one. Octyl sloonol, perfurner's grade, both, one. n-Octyl, n-decyl philiabete, tanks, f.o.b., b. 1-Octyl, n-decyl philiabete, tanks, f.o.b.	6.25 .43½ .70 6.25 1.40
Naphtha, petroisum, ceaner see Creat Naphtha, VM&P, petroisum, tanks, New Jersey and New York- Houston, Tex	1.20 1.80 22 234 80		Cootse ormanium or one too Cootse Chisee 90% kilo 1-Octseclerol, syn., tanks, f.o.b. b. Fortseclerol, syn., tanks, f.o.b. b. Fortseclerol, syn., tanks, f.o.b. b. Fortseclerol, syn., tanks, f.o.b. Houston, Titx. Gel Cotyl sloono, perturner's grade, bots. one. chid. Get-Ootylénine, dine., g.l., t.l. works Ootyl phonol, molten. t.l. Vert-Ootylénine, dine., g.l., t.l. works Ootyl phonol, molten. t.o.	6.25 .48½ .70 6.25 1.40 .38½ 2.50
Naphtha, petroisum, ceaner see Creat Naphtha, VM&P, petroisum, tanks, New Jersey and New York- Houston, Tex	1.20 1.20 22 2314 .80	1.34 32%	Cootes omberant or one too Cootes of hisee 90% islo 1-Octanol, syn., tanks, f.o.b. ib. I-Octanol, syn., tanks, f.o.b. ib. I-Octanol, syn., tanks, f.o.b. IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	8.25 .43½ .70 8.25 1.40 .33½ 2.50
Naphtha, petroleum, teaners see Case Naphtha, VMAP, petroleum, tanka, New Jersey and New York- gal Houston, Tex, Sellouston, Sell	1.20 1.20 22 234 ,50 .60	1.94	Cootes omberant or one too Cootes (hisee 90% kilo 1-Octanol, syn., tanks, f.o.b. b. lo-Octanol, syn., tanks, f.o.b. b. lo-Octanol, syn., tanks, f.o.b. b. lo-Octanol, syn., tanks, f.o.b. b. lo-Octyl siconol, perturner's grade, bots, one. Octyl in-decyl philipsies, tanks, dwd. bots, b. lo-Octyl in-decyl philipsies, tanks, dwd. bots, works. Octyl philipsies, dws., sl. 1.1. works. Citions of, is, dms., sl. 1.1. works. b. Citions of, is, dms., sl. b. danks.	6.25 .43½ .70 6.26 1.40 .35½ 2.50 .75 .40 .82 .46
Naphtha, petroleum, teaners see Creek Naphtha, VM&P, petroleum, tanka, New Jersey and New York- Bouston, Tex. Naphthalene, crude, dom., T&*, tarks, works. Naphthalene, phihallo anhydrida grade, tanka, works. Naphthalene, netrolaum, 80°0.	1.20 1.20 22 2314 .80	32W 32W 100	Cootes omberant or one too Cootes of hisee 90% islo 1-Octanol, syn., tanks, f.o.b. ib. I-Octanol, syn., tanks, f.o.b. ib. I-Octanol, syn., tanks, f.o.b. IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	8.25 .43½ .70 8.25 1.40 .33½ 2.50

ne basis b.			Naphthol arylide red toner deep					بينسبب	
O(ANIINA (D.D.di.		5.20	#18060, DOIS	8.50	-				
prenyl math.inst			I PARILECISMES, CANA IN	7.75		CHEMIC			
na. II. tob Ib.	1.76	-	2-Naphthol-3,6-disultonic acid, disodiur 1-Naphthol-5-sultonic acid (see L- acid).		R sait).		-N		
me basisib. renyianedi-leocyanati	2.25	-	- 1 Table of the common of the control of the contr	O and of					
		lylinethana	(1744-110 ITHOU IN RESTRICTION: INVOVE GALGICEN	Cleve's ac	id).				
e, tanks. 4,000 gal -			anichinikisters Turks Turk		•	PRICES	\		
Sumers, divd	90	-	works	2.10	- ·	II DDIMER		1	
i (see Hexylene glyco zolone (see 1- Pheny	X). 18-2 — Albert —		J STIGURIUN WILLIAM A MARIATRANA AND AND AND AND AND AND AND AND AND	~~~~~	- alab				
		yrazolone-	Jane In Laboration - I - AND ICA IN BURN 1600 IV	oblas acid).	-				
.o.b. shipping pt ib.	.44	_	recusious of, 20%, LL. LO.b. works						
ene, bulk, works. asi.	1.39	-	tanke, t.o.b. works b.	.52 .47	-	WEEK ENDING OCT. 24	1000		
loride (see Methylene nt cement, plastic, 50	blue).		1 00°F, LL., 1.0.D. Works	62		WEEK ENDING OOT. 2	1, 1900		
c.l., worksb,	.071/2		tanks, t.o.b. works,		-	Oleum (see Sulfuric sold, furning).			
ing, 20 to 80 mesh.	20,72	-	40°F, dms., t.l., l.o.b. works b. tanke, f.o.b. works b.	.49	.48	CNOSTUM CUM Lears, box	2.10	_	
	.07	-	Veryered Drices and/y on shimments y	ultibin 200.	mis region of	University equiple, Spanish, dms oal.	9.00	-	
wet-grd., 325-mesh, f.o.b. works lb.	4001		THE SUBIDITY PA COINCE BEGGE	1160 blobs	7.7exas. 2c.	Italian B-type	5.40 12.00	5.50	
., 1.a.b. works ib.	.10%	-	Moher and Weel Coast 3c. high Neomycin sultate, USP, non-sterie,	ner.		20 meeh, works ton	16.00	Ξ	
C.I., I.o.b. works, Ib.	.22	-	dma., 50-kilo, lote, activity ba-			100 mesh, works ton	20.00	_	
ax, petroleum, coet-			I BIS. CRVCI	75 00	_	powd. 25-kilo	405.00		
des, FOA, tanks,		400.	I ARCHAUGU DIACOL BOULA' 80.20 " C " F			Orange oil, expressed, USP, Calif.	125.00	-	
grades, FDA, tanks,	.361/2	.461/2	powder, fieke, bgs. Li., divd ib.	.522		I I I I I I I I I I I I I I I I I I I	1.20	_	
	AIDE	.48	i iserci, tech., dma.	5 90	6.75	EKDRESSECI VAIENCIA, CITIS	1.00	1.20	
50-65 vis., U6P light			DBIT, OFBOIA, CUTIS IN	4 00	5.00	Galil., dist., cns. 1.o.b. plant	.40 .50	.56	
ygal. nke, refygal.	2.38 2.42	-	Neroli of, Tunkslan, bots kilo Nerolidol syn. 55-gal, dms lb.	16,000.00	-	1 15/82/08/1klid	1.20	-00	
ika, refygal.	2.45	-	Nercin, Bromein	7 00	-	West indian, bitter, NF X, ons.,	40.00		
tanks, rety gal.	2.53	-	Nischamida, USP, fildma Ma	0.00	-	Orange peel, bitter, Heitlen bis	13.00 .38	_	
tanks, refygal.	2.54	-	NACT NE. COM SOOD FROM OF MAN			Orange peel, bitter, Haitlan bis b. Oragano, Graece, 30M b.	2.60	Ξ	
tanka, retygal. tanka, retygal.	2.58 2.95	-	divd. kilo feed-grade, 98-99.5%, bga., same	7.50	-	l unkayb.	2.80	_	
etroleum, odorlese,		-	DESIGNATION OF THE PROPERTY OF	6 10	5.50	Mexico	1.05		
w Jersey gal.	1.83	1.68	MICKEL ECOTATE, CIME., 5.000-lbs. to t1.		0.00	Orria root, Florentine, bis b.	35.00 4.00	-	
a gal.	1.79	1.79	I divd. E	+ 04	-	powd., bbig., bxs	4.60	5.00	
peirolaum, regular, w Jerseygal.	1.41	1.40	Nickel carbonate, dms., bgs., 5,000- be, to I.I., divd. Eb.			Verone bis	3.00	_	
	1.41	1.49	{ rycketchonds, bas., 10,000-lbs, to l }.		-	powd., bbls., bxs	4.60 3.25	5.00	
, bbls lb.	1.52	1.95	diva, E	1 18	-	E UXING ECIG. DOG., C.I., WORKS Rx.	3.25 .44	3.36	
tel, com.l., powd			Nickel flyoborale, lig. conc., drns., t.l.,			D-Oxynachtholc sold dme works		-	
ns., works , lb. oxide, CP, dms.,	13.50	-	Nickal metat, electro cathodes, cs.,	1.25	-	1 19Ch	2.55	-	
,000 lbs. or more.lb.	5.25	_	WORKS 5	9 45	_	Oxyquinotha basa, pure, 1,000 bs., frt. alid	9.00	_	
dms., 24,000 lbs. or			NICKO NICEGE, OMS., DOS., t.l., divd.		-	Oxyquinolina sulleta, 100 lbs. Irt.		-	
le,		2.85	E	1 10	-	elid	4.00	-	
il, cims. same basis, ib. Ammonium Dimolyt		2.86	Nickel oxide, 75%-79% Ni, dme., 500- ib. lots, 1.o.b. works lb	2.60					
phosphela, tert.	nonial .		Nickel suitate, bgs., I.I., divd. E Ib	80	.80				
n. 13% N. 52% P.			NICOTINIC BCICI (866 NIBCIN).	. ,20	~~				
i.l., f.o.b. Flg.	455.00		Nicotinamide (see Niecinamide). Nitric ecid. 36° Ba., 38°Be, 40°Be,						
phosphsia, lech.,	155.00	-	42°Be. tanks, c.l., works NF.						
., t.i., works, trt.			1 100% basis tor	185.00	-				
100 lbs,	54,00	-	9472% to 98% HNO, tanks, works				_		
., c.l., I.I., same ba-			o-Nitroentine, fiske, dms., t.i	280.00	-	Paliadium metal, works, Troy-oz, Palmoll, (see Oils, Fata & Waxes Marks	134.00	-	
100 lba. - cresol, bulk, t.l. , lb.	59.25 1.68	-	WORKS	1.51	_	Palmoli acid, disidist dine	.3115	_	
bulk, divd	.98	1.00	molten, retd., tanka, worka lb	. 1.44	-	1 tanke	.30	_	
acid, purif. (see Chio	roscetic acid	i, mono).	mollen, tech., works	1.37	-	e.d., dms	,42	.45	
ne, tanks, t.o.b lb.	,421/2	-	o-Miroaniine, oranga tonar, bga., fri	1.90		Palm kamel oil, bulk, c.i.l., U.S.	.35	~	
ie, tanka, iri, aitd.		40	p-Nitroenline, dme , c.i., t.i., 30,000 b	1.00	-	portsib,	.181/2	.194	
70% squeous tanks,	.43	.46	min., works	1.63		Palmarose on, indian dins kilo	36.00	_	
d, 100% basta, . , lb.		-	o-Nitroanisole, 100-kilo lote, kik Nitrobenzene, tanke, t.o.b lo	8.75		Palmitic acid, 90%, tech., bags lb.	.53	-	
ame basisib.	.82	-	o-Nitrochiorobenzene, dina., I.I., a.I.	. ,39	.34	Papaverine hydrochloride, NF powd., inp. buk. kilo	.51	-	
imina, dms., c.l., frt.	.79		[.O.b	. 82	_	Imp. bulkklio	66,00	-	
b		-	tanka, same besia	.74	-	Paprika, Hungarian, 100 AU bgs ib. Spanish, 110 AU bgs ib.	.60	-	
ine, enhyd., dme.,	,54		2-Nitro-p-cresol, tech., dme., t.l., frt.	1.75	_	Paraffin, fully-reld., 127-130 F., ASTM.	.90	-	
pe/d,	.78	•	Nitroethane, tanka, divd. E	2.50	-	tanke, rety	.29	.35	
anhyd., lanks, con-	.79	-	Nitrogen solutions, givect application.	_		130-135F., ASTM, tanks, rety.	,3314	.39	
de frt. equeld b.		_	over 32% N, and mgl. type,			140-145 F., ASTM, tunke, refy.	.35	.411/2	
nka, Irt. ald. 100%		_	dvect application, 19-32%	1.20	-	150-155 F., ASTM, tanks, refy.	.19	.46	
tanks, frt. equald.	.67	-	N unit-ton,	1,28	1.49	12% of tanks raiv	.21	_	
tanks, m. equaki.			Nitrogenous sewage sludge, proc-			20% Of, tanks refy	.19		
utamele, dine., 890	.8314	-	a e e d , bulk , f . o . b . Chicago unit ton.	4.10	_	AMP temperatures are an arbitrary 3F in Paraformaldehyde, 91%, flake, bgs.	rginer than A	ASTP,	
, trt. eld lb.	2.50	-	NOTE: Price is per unit NH, plus \$1, p		a. bulk. f.o.b.	Q.L. Ll., ORVO	.29%	_	
amete, 50-fb. bge.			producer, a works, Chicago,			96%, powd., bgs., o.t., t.L divd. lb. Paraldehyde, tech., 98%, 55-gal.dms.,	,39V2	_	
, o.l., I.l., divd ib.	.76 .85	.80	Nitrogenous tankage, processed, bulk, per unit-ton NH ₃ , I.o.b. Carrol-			1.1., dlvd. Eb.	.78Vz		
phete (see Sodiump)		onobesici.	ville, Wiscunit ion	7.00	_	tanke, divd. E b.	581/2	=	
, Imp., German . Ib.	.66	.57	1.0.b. FOIDES, Me unit ton	6.75	-	Parathion, ethyl, dins., frt. alid b.	1.78	-	
bgs., c.l., I.l., f.o.b.	04		expanded, bulk, a.L., per unit-ton N, La.b. Forrestdale, R.I. unit ion	0.05		Parathion methyl (see Methyl parathion).	2 75		
, same basis ib. NF, 25 k lots kilo	.01	-	Nitromethane, dms., t.l., divd. E lb.	8.35 2.37	-	Pera toner red, bbls	3.75 3.78		
NF. 25 k lots klio	1016.00	~	o-Nitrophenol, dma., f.o.b. worksb.	1.00	-	chlorinated, (red 4) kgsib. Patchouli Oll, Indonesian., cimekio	18.50	20.00	
19P, 25 K lots Kilo	860,00	-	p-Ntrophenol, dms., c.i., 1.o.b.		4.45	Patchout of, Chinese kilo	19.00	20.00	
o.l., frt. alid. E lb.	1.02	-	2-Nitropropene, tanks, frt. elid. E ib.	1.05 .55	1,45	Peach kernel oil, USP (see Apricot kernel Peacut meal (see Oils, Fate & Wexea may	ve). ket neovri		
tychrochlorio aoid).	-274	-	m-Nitrotoluene, tech., dms., frt. alid. b.	1.16	-	i Panutoi (606 Ois, Fata & Waxes marks	t report).		
ita, 25-lb. cns lb.	8.00	7.00	o-Nitrotokiene, dms., c.L. Lo.b ib.	.85	-67	Peotin dom., NF, citrus, powd., 100-		0.70	
, dms, lb.	10.75	-	p-Nilrotoluene, lach. dme., c.l.,	.48	67	Pelergonic acid, net., tanks, min, frt.	3.30	3.70	
mab. ee Allyl isothlooyanat	3.60 te).	-	works,	.83	.85	CPC	.70	_	
wn No. 1lb.	.22	~	tanka, works	.70	-	syn., tenks, f.o.b. frt. eidib. Penicilin, potassium, non-sterile, 200-	.70 .	-	
Yellowlb.	.23	-	Nonyiphenol, tanks, f.o.b. E. of Rock- les, min. frt. ald	.49	.531/2) DILION-LIGHT lots billionumits	25.00	30.00	
bgeb, oll).	,22	-	Norephedrine hydrochlorida (see Phe			Penicifin, proceine, sterile 50- billion-			
, pure, 1.1., bgs lb.	1.30	- '	drochloride)			Personnel of rices	38.00	-	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,12	-	Nutmeg oil, dist., East indian, NF, drie	27.00	28.50	Pennyroyal oil, drns	5.90	-	
ulmeg of).	2.25	_	Nutrnegs, East Indian, whole lb.	3.15		1,0.0. WICHTE, KED	.65	· -	•
, , lb.	2.20					Peniserytrantol, tech., bgs., o.l., f.o.b.,			,
						Pentaerythritol, di- and tri-isomers (see	.71 Dinonteend	.72	
		:		٠.		Pentserythritol triscrylate, t.l. dms.,	adact treat Ar	ARICUS CRIPCY	
						Pentserythritol triécrylate, t.i. dms.,			
	٠.			5		Pentoberbitel, days, 100 lbs, or more	1.50	.~	
	·	٠.			· :]	Pentoberbitel, data, 100 lbs. or more, frt. ald.	7,00		٠.
	,:			 -		Pantooutottu-socium, ama., 100 ibe.			
ency (see Solvent hat	shifte netrole	timi.	Ochre (see Iron axide, yellow, net.)			ormore, divd	14.00	- ′	•
HICY (DOE OUTSER FIRE	nar's neontr	1	Ocotes cymberum of dine	. 6.00		lota, Idio	32.00	_ :	•
6. CS66000 (SER L ZOZ		100	COOKER, CHAPERS SUTE	6.25		repoer, pieck, Brezieni, bos	2.28		., 3
n, cleaners (see Clear petroleum, tanks,			1-Octadecarol, syn., tanks, f.o.b lo."	.70	· =	Lampong, bgs	2.30	÷	: .
petroleum, tanks, ey and New York-		.194	L'Octood pun tentre fain			Telicherry, bos.	2.28 2.35		
petroleum, tanka, ey and New York-	1.29	1.34	n-Octanol, syn., tanks, f.o.b lb.	1 - 1	4	Pepper, red Chinese Fulden rice bgs to.			. •
petroleum, tanka, ey and New York- gal.		1.84	n-Ociane, 97% min., tenks, 1.o.b., n-Ociane, 97% min., tenks, 1.o.b.	0.20		s bident care extrane Chiract same com tor	C15	-	
petroleum, tanka, ey and New York- gal. e, dom., 78", tanka, ib.	1.29	1.34	I-Octanol, syn., teinke, f.o.b	0.20	128		1.00	2	
petroleum, tanks, ey and New York- gal. e, dom., 787, tanks, ib.	1 29 20 22		I-Octanol, syn., teinke, f.o.b	0.20	1.75	Ling bgs. by	76	- 2	, . , .
petroleum, tanka, ey and New York- gal. gel. s, dom., 78°, terks, lo. sihalio anhydrida	1 29 20 22		I-Octanol, syn., teinke, f.o.b	0.20	1.78	Ling, bgs. ib.	.76 .70		, t
petroleum, tanka, ey and New York gal s, dom., 78°, tecks bihallo anhydrida ka, works birolaum, 80°0,	1.29 1.20 22 234	994	I-Cottenol, syn., tranks, f.o.b. n-Oolere, 97% min., tenks, f.o.b. Houston, tiex. gal. Ootyl alcohol, perfumer's grade, bots. n-Ootyl, n-decyl philipstet, tanks. dvd.	1.40 331/2	1.78	Ling, bgs. ib.	.76 .70		
petroleum, tanks, ey and New York gal e, dom., 78°, tecks, b. ihelio anhydride ka, works	1.20 1.20 22 234 80	32W	I-Cotenol syn, tranks, I.o.b. h. Dolerie, 97% ntin., tenks, I.o.b. Houston, Tex. Ootyl sloohol perfumer's grade, bots, one. n-Ootyl, n-decyl philhelete, tanke, old. text-Ootyléntine, dime., cl., t.1., works, Ootylpherici, molten. t.o., ib.	331/2 2.50	1.78	Ling, bgs. ib.	.76 .70		
petroleum, tanks, ey and New York gal e, dom., 78°, terks, bo ithelio anhydride ka, works	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Hang, bgs. b. Ling, bgs. b. Indian, S-4, bps. ft. Pakistan, cluridouts, bgs. b. Papper, white, Mauriok, ogs. b. Pappermini leaves, imp., dms. b. Pappermini off, Madres b.	76 70 43 3.05 2.65		
petroleum, tanks, ey and New York gal e, dom., 78°, tecks b. b. inalic anhydrida ks, works befrolaum, 80°0 balls, fisites, whole colobers dma	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Hang, bgs. b. Ling, bgs. b. Indian, S-4, bps. ft. Pakistan, cluridouts, bgs. b. Papper, white, Mauriok, ogs. b. Pappermini leaves, imp., dms. b. Pappermini off, Madres b.	76 70 43 3.05 2.65		
petroleum, tanks, ey and New York gal e, dom., 78°, tecks b. b. inalic anhydrida ks, works befrolaum, 80°0 balls, fisites, whole colobers dma	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Hang, bgs. b. Ling, bgs. b. Indian, S-4, bps. ft. Pakistan, cluridouts, bgs. b. Papper, white, Mauriok, ogs. b. Pappermini leaves, imp., dms. b. Pappermini off, Madres b.	76 70 43 3.05 2.65		
petroleum, tanks, ey and New York gal gal , dom., 78°, terks binallo anhydride ke, works. biroleum, 80°O. bate, fakte, whole jobb ere, dms. biroleum, built, works biroleum, built, bui	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Hang, bgs. b. Ling, bgs. b. Indian, S-4, bps. ft. Pakistan, cluridouts, bgs. b. Papper, white, Mauriok, ogs. b. Pappermini leaves, imp., dms. b. Pappermini off, Madres b.	76 70 43 3.05 2.65		されて、 これが 養養
petroleum, tanks, ey and New York gal gal , dom., 78°, terks binallo anhydride ke, works. biroleum, 80°O. bate, fakte, whole jobb ere, dms. biroleum, built, works biroleum, built, bui	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Hang, bgs. b. Ling, bgs. b. Indian, S-4, bps. ft. Pakistan, cluridouts, bgs. b. Papper, white, Mauriok, ogs. b. Pappermini leaves, imp., dms. b. Pappermini off, Madres b.	76 70 43 3.05 2.65		
petroleum, tanks, ey and New York gal gal , dom., 78°, terks binallo anhydride ke, works. biroleum, 80°O. bate, fakte, whole jobb ere, dms. biroleum, built, works biroleum, built, bui	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Hang, bgs. b. Ling, bgs. b. Indian, S-4, bps. ft. Pakistan, cluridouts, bgs. b. Papper, white, Mauriok, ogs. b. Pappermini leaves, imp., dms. b. Pappermini off, Madres b.	76 70 43 3.05 2.65		
petroleum, tanka, ey and New York gal , dom, 78°, terks bothallo anhydride ke, works bothallo anhydride bo	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Hang, bgs. b. Ling, bgs. b. Indian, S-4, bps. ft. Pakistan, cluridouts, bgs. b. Papper, white, Mauriok, ogs. b. Pappermini leaves, imp., dms. b. Pappermini off, Madres b.	76 70 43 3.05 2.65		
petroleum, tanks, ey and New York gal gal , dom., 78°, terks binallo anhydride ke, works. biroleum, 80°O. bate, fakte, whole jobb ere, dms. biroleum, built, works biroleum, built, bui	129 120 22 234 50	324	I-Coteno, syn, tranks, f.o.b. n-Ocleans, 97% min., tenks, f.o.b. Houston, fisk. Qui. Cotyl sloohof, perfumer's grade, bots. n-Octyl, n-deoyl phihatete, tanke, dvd. iert-Octylaninei, dme, o.i., t.i., works. Works.	1.40 .35% .2.50	.78 .37 .78%	Ling, bgs. b. Ling, bgs. b. Inden, S-4, bgs. b. Paldstan, dundlouts, bgs. b. Papper, white, Martiok, bgs. b. Pappermini leaves, imp. dmst. b. Peppermini cit. Madras	76 70 43 3.05 2.65		

minoalicetic acid, 95% min., chris.
c.l., Li., works. b. 3.00
Indole, dins. b. 25.50
Indole, dins. b. 25.50
Indole, dins. b. 1000 kilos or more 1.0b, works. kilo 17.50
Icdine, crude, dins. kilo 13.50
Icdine, crude, dins. kilo 13.50
Icdine, crude, dins. kilo 14.21
Icdine, crude, dins. kilo 14.21
Icdine, crude, dins. 100-499 kilos, irt.
alid kilo. 35.00
Icdine, NF, dins., 300-lbs., 1.0, b. 24.00
Icdine, dins. b. 10. 24.00
Icdine, dins. b. 10. 18.20
Icdine, dins. b. 10. 18.20
Icdine, dins. b. 10. 25.00
Irieh mose, bleached, prime, whole, bleached, prime, whole. bs. icon lobs, div. E. b. 270
Iron blue, reg., bgs., I.c.I., ton lobs, civ. E. b. 2.70
Iron blue, reg., bgs., I.c.I., ton lots, same basis. b. 2.00 CHEMICAL MARKETING REPORTER

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CHEMICA	
PRICES	

VUEWI	/H		bbis., Iff. alid. E. of Nock- les	6.10	10.10	bgs Potassium borok
PRICES		1	bbis., same basis ib. Phthalyisullacetamide, dms., 500- kilo	7.45	6.20	100-1,00 Potassium bron
PKI(:F3	1		iots	6.81 2.61	-	200-lb. works
			Picricacid, pure paste, 26-lb, cine., c.l., dry besis, f.o.b. Charlotte,			Potassium bromi c.l. f.o.b.
WEEK ENDING OCT. 24	1986		N.C lb. tech., paste, 25-lb. cins., Ll., dry ba-	6.00	-	Potassium carbo tanka, t.
Perchiorcethylene, dry cleaning grade,			sts, 1.o.b. Charlotte, N.C b. Plament green B. kgs b.	5.00 2.20	:	dms., c.l., t.l., v calcined, 99-1
distr., tanka, divd b. indust., grade, consumers, tanks,	.281/2	-	Pilocarpine hydrochloride, USP, dms	500.00 2	00.000	cers works
divdlb. Peri acid.dmslb.	.31 2.55	=	Pimento see Allapice Pimento lesf oil, dms b.	14.50		bga., c.l., t.l. drums
Permanent red 2B, (red 48), calcium salts, dms., frt. alid lb.	5.25	_	Pine oil, 60% min. alcohol content, bulk, 1.o.b. works 100 lbs	47.00	63.00	Potassium carb 400-lb. c
barium salts, same basis ib. Peru balsam, i.o.b ib.	5.25 3.25	=	dms., c.l., t.l., same basis 100 lbs	51.00	54.00	Potassium chlore works .
Petitgrainol, Paraguey lb. Petrolatum, USP, exow white, dma.,	5.00	-	s-Pinene, perfurne gradekillo tech, gradelb.	1.62 .18	.23	powd.,dms., o purif., gran.,
c.l., refy	.375 .610	Ξ	b-Pinene, perfurnery grade, tanks kilo tech. grade. tanks b.	2.30 .35	.40	shipping Potassium chior
USP, soft white, drns., o.l., refylb. tanks, refy	.375 .310	Ξ	Piperezine, anhyd., dme., t.i., frt. alid.	1.60	-	99.65% works
UBP, By white, data, o.l., refy b. Petrolatum, USP, Lilly white, tanks,	.370 .305	-	Piperazine citrate, 38%, dms., 1,100- ib. lots, 1rt. aldb.	2.25	2.35	USP cryst. dm USP gran., dm
refy	.365 .30	Ξ	Piperazine dihydrochloride, 53%, dms., t.i., irt. aldb.	2.00	-	U6P powd., dr Potassium chlori
USP, soft yellow, dms., c.l., refy ib. tanks, refy	.350 .285	E	Piperazine hexanydrate, 44%, dms., 1,100-lb. lots, fit. alid lb.	1.60	-	Potassium chro
USP, ember, dme., c.l., refy ib. tanks, refy	.345	=	Piperazine phosphate, 42%, dms., t.l., frt. ald	1.80	-	Potassium citret drns., In
Petroleum plich (see Aspheit, petroleum) Petroleum sufonafe, 60-52%, sulfonic			Piperidine dist. 68% min., dms., c.t., t.i., workskilo.	6.92	-	Potassium cyani lots or m
cont., HMW, bulk, workslb. MMW, same basislb.	.4814 .48	.48		5.00 666.00	-	Potasstum dichre
LMW, same basis	.48	.48¼ on corre-	Polycarbonate resin, pallets, net., 1.l., frt. alid	1.84	1.88	Potassium fluobo
sponding molecular wis. Phenacelin USP, powd., 200-lb. dms.,			Polyester resin, unsaturated, g.p., or- thophthalib, bulk, tankes re,	E4	E9	Potsssium fluo
1,000-lb. lois, divd lb. 100-lb. dins., 1,000-lb. lots, divd. lb.	2.20 2.22	2.45	Int. alid	.51 .55	.53 .62	Potassium gluco works.
p-Phenetidine, drns., c.i., f.o.b Ib. Phenoberbital, USP, dms., 600-kilo	2.00	-	Polyethylens realn, high-density, blow mokiling, g.p., hopper cars, frt.	.43	.48	Price W. of De Potassium gual
lots., f.o.b. works Kilo Phenobarbital-sodium, NF, 500-kilo	19.50	-	aild	.43	.48	dma., 6 equald
lois, 1.o.b. works kNo Phenol, syn. tanks, frt. equald lb.	27.00 .25	.29	extrusion, g.p., hoppercars, same basis	.47	.46	Potassium hydro Potassium hydro
p-Phenoisullonic acid, 85% sol'n., dms.,c.l., lob works ib.	.64 .58	-	wire and cable, net, hopper cars, same basis	.45	.48	100-lb. frt. equa
tanks, same basis	2.33	_ '	wire and cable, black, same ba- sis lb.	.551/2	.57	Potassium lodid dms., 1,
puril, grade, same basis ib. Phanyl ecetate, cims., 100-ib. lots,	269	=	Polyethylene realn, low-density, film liner, hopper cars, fit alid lb.	.38	_	AC8 grad Potassium-mag
works	1.04	-	clarity film, hopper cars, frt., akd	.37		bgs., w
di-Phenyletenine, dme., 25-kilo	4.50	-	palet strink film, hopper cars, same basis	.35	_	MgSO ₄ Potassium mets
ictskito. 1-Phenyl-3-carbethoxy pyrazolone-5.	B4.QQ	-	extrusion coating, hopper care, same basis	.36	.42	Ll
dms. 200-lb. lots, divd. E lb. m-Phenylenediamine, cast, dms., c.l.,	3.45	-	g.p., hopper cars, same basis . b. Polyethylene linear low-density g.p.	.36	.42	K,Q, irt. eq
t I., 1.0.b. works lb. o-Phenylanadiamine, flaked, dms., t.1,	2.07	-	blown film resin	.38 .40	.40 .431/2	Canada solubla, fine s
f.o b. works ib. p-Phanylanediamine, fisked, dms.,	3.25	-	casi film realn Polyathylene resin, low-density injec-	.40	.45	Sesk coarss, f.o.b.
Phenylephrina hydrochlorida, USP	4.00	-	tion molding, g.p., hopper cars, same basis ib.	.45	.48	gran., 1.o.b. S Potassium nitra
t00-kilo lots or morekilo. Phenylethyl sceisle, dmsib. 2-Phenylethyl stockel blf. dms	175.00 3.35	185.00	ine wire, CATV, power cable ib. wire and cable thermoplastic high-	.647	-	ton c.l., pri≣ed
2-Phenylethyl alcohol, NF, dms lb. b-Phenylethylamine, dms., 30,000 lbs. or more, frt. alid lb.	2.10 1.50	2.20	voltage, natural color, sams basis	.70	.741/2	tech., gran., i
Phonylethylphs nyl acetete, 25-lb.	5.50	6.90	wire and cable, XLPE low voltage, 14% carbon black, same			Potassium oxel gran.,
Phenyloyconic acid (see Mandelic acid). Phenyloydrazine, 99% min., dms lb.	3.50	-	basis	.671½ .587	.721/2 .687	equald. Potassium pen
1-Phanyl-3-methyl-5-pyrszolons, dms., 250-lb, lotsdivd, E., . lb.	t.80	_	Polymyxin suitate, USP, bulk, 60-bition units min million units	.52		c.l., wo
o-Phenyiphenol, dms., U., works Ib. p-Phenyiphenol, bgs., U., 40,000 lbs.	1.35	2.00	Polyoxyethyle ne sorbitan monos- tearato, dms., 20,000-lb. lots,	70		Potessium pent Potessium pe
Phenylpropanolemine hydrochloride,	1.85	-	Polyoxyathytene sorbitan fristearate,	.78	-	works. Polesalum pen
Phenylselfcylate, purit. cryst., clms.,	24.00	26.00	dms., 20,000-1b. to 1s, works	.78	-	ing, b works.
tech. cryst., Eb.	2.75 2.25	Ξ	Q.p., net., t.L., frt. alkd lb. copolymer, med. Impact, nat.,	.45	.48	50-kg. dms 150-kg. dn
flaks, E	2.35	-	same basis ib. high impact, same basis ib.	.50	.56	Potasalum perm kgs., w
Phospene, 1-ton ret. cyla., 5 to 9-cyl.	1.95	2.05	Colored material 6c. per lb. higher for each grade,	.53	.60	Potassium per 24,000
quantities, worksfb. Phosphate rock, Fig., land pebble, run of mine washed, 66-88% b.p.l.	.55	.67	Polystyrene rasin, cryst., net., hopper cars, irt. aid	.48		plant. ci/ti same ba
bulk o.1. mines ton vessel, Tampa, same basis ton	23.15 28.00	-	impect, nst., nopper cars, same be-	.51	-	Potassium pyri bgs.,
Phosphoric scid, com'l. and tech. grades, 75% tsnks.	20.00		rigineer, nigh impact, nat, hop-per	.52		bulk, same b
works	29.00 31.00	Ξ	grade, 1,000-b, lots	.69		Potassium salid b. dm
85%. N.F. tanks, l.o.b. freight equald 100 lbs.	93 50	_	Polyvinyi alcohol, fully hydrolyzed.	.78	-	USP, powd.,
Food grade prices \$2.00 above tech. of Phosphoric acid, agricultural grads,	yrade.		divol	1.00	1.05	Potassium sit
62-54 % s.p.s., tsnks, worksunif-ton	3.10	_	lly, bos., 11., dwt.	1.05		Be., works
super, mon. 70% a.p.a., earne basisunit-ton.	3.45	-	Polyvinyi chloride reeln, g.p., homo- polymer dispersion, bgs., tl.			Potasalum silic
Phosphorus, white (yellow) solid dms., cl., works, int. equaldb.		-	g.p. suspension, bulk, same be-	.50	-	to, 1.0 40-40
Phosphorus oxychloride, tanks, iri.		-	pipe grade, bulk, same bests th	.38	-	C.I., 1.
equald		-	filmgrade, bulk, same basis b. Polyvinyl chloride, g.p. copolymer dis-	.37	.47	30-30 t1., w
totabins, sellers, 100 lbs. Phosphorus psintoxida, dms., 1.l.,	45.00	Ξ	g.p. copolymer suspension, same	.58	.81	dma., solid or glas
works	.82	-	basis b. Poppyseed, Dutch, bgs. b. Turkey, bgs. b.	ro.	.49 -	t.f., we solid or glass
Ci., works	.38	-	Potash sgricultural (see Potassium mur Potash, caustic. liq., 45% basis, tanks,	.53 fa te).	-	"Ratio" Indica
worksb	. 40	:	West Coast, 60% hasts, tarte	13.00	-	Potassium silk
Phihalcanhydride, flake, c.l., t.l., dms., fit. equaldb.	.30	_	sx terminel 100 be. reg. flake, 88-92%, 400-lb. dans., c.i.,	18.06	· -	Potassium-so
Prices t-11/sc. per lb. higher on the Wa	27 est Coast	-	Potassium scatata, NF, prov. class 11		-	Potassium son
Philipinide, flake, works	85	-	works E		. 1.81	Polasakum eta Polasakum eui
obts, fit slid E, of Rockles ib. green shade, same basis ib.	. 8.40	9.50 8.50	Polassium bigarbonate, USP gran	.81	½ −	min. 8
rosinated, bbla., same basis ib.		8.75	GITIS-, T.L	.72		Potassium sut
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		-		4.4	Sec.	

	Potassum bichromate, gran., 400-lb. dms., c.l., t.l., works lb.	.48	_	Potassium totraborata, works
7.76	Potassium bifluoride, (sch., dms., I.i.,	.45	.49	dms , eame basis Potassium tetraborete ;
	works., Irt. equeldlb. Potassium bitertrate, NF, gran., powd.,	.60	1.20	Potassium thiocyanate 225-lb. dms., 5
10.10	bgs	18.00	20.00	tech., crysl., dms., I.I. Polessfum tilane fo
6.20	100-1,000 lbs., works lb. Potassium bromafs, gran., powd.,	10.00		works Poleasium-Ufanium 1
-	200-lb. dms., c.l., 1.0.b. workslb.	1.08	-	Potessium-zirconium i
	Potassium bromkie, NF., gran., dms., c.i. f.o.b. works	1.12	-	equald Prednisone USP. dms.
-	Potassium carbonata, 50., 47% K ₂ CO ₃ , tanka, 1.w., works 100 lbs.	14.60 20.85	<u> </u>	moro Prednisolone acatele,
:	dms. c.l., t.l., works 100 lbs. calcined, 99-100% K ₂ CO ₂ , hopper	20.00		kilos or more . Prednisolono, anhyd.,
00.000	cars or Iruoks, works 100 bs. bgs., c.l., t.l., works 100 bs.	32.50 35.20	- 1	kilos or moro . Proceine hydrochlorida
-	drums 100 lbs.	38.40	-	otic grade, d lots, frt. alid
63.00	Potassium carbonata, gran., purit., 400-lb. dma., 5-dm. lota lb.	.40	.48	Proceine hydrochloride USP, empula gred
54.00	Potassium chtoreta, cryst., dme., c.l., worke	.141/2	-	lb. lota, trt. elid Propionaldehyde, tenk:
.23	powd., dms., c.l., works ib. puril., gran., 325-b. dms., 1.o.b.	.40	_	Propionic ecid, syn., p.
.40	shipping point ib. Potassium chloride, chemical grade,	.40		n-Propyl ecelete, tanks n-Propyl atcohol, lanks
-		105.00 1.12	- '	n-Propyl gallate dms., 1 lote, divd
2.35	USP gran., dmsib.	.87 .87	-	n-Propyl-p-hydroxybe 500 kilbs tech., 500 kilos, f.o.b
-	U6P powd., dms		iate).	Propyl pareben (see n-l Propyl thiourad), dms.
-	Potassium chromets, puril., cryst., dms., worksb. Potassium citrete, NF, gran., 200-b.	.57	-	n-Propylamine, dms., c
-	dms., Irt. eldb. Potassium cyaride, dms., 20,000-lb.	.931/2	-	Propylene, polymer or and La. Gull C
:	lots or more, Lo.b. works lb.	1.32	-	chemical grade sa Procylene givool, indust.
20	Potassium dichromate (see Potassium bichromate).			USP, tanka, Lo.b. E Propylene glycol mor
1.88	Potasaium fluoborata, tach., dms., c.l., t.l., works, frt. equald lb.	1.40	1.42	tanke, divd. E. Propylene oxide, tank
.53	Potsasium fluoride, anhyd., dms., t.l.,	1.68	-	1rt. equald Paylium seed, USP po
.62	Potassium gluconate, dme., 1.l., 1.o.b. works	1.45	-	Pumice, dom., fine, dots
.48	Price W. of Denvar 4c. per fb. higher. Potassium gualacolsusionete, 300-tb.			medium, 0/2-1/2, bg coarse, 2-extre co
.48	dma., 600 lbs. or more trt. equaldlb.	2.10	-	lots Pumice, imp., italian,
.46	Potassium hydroxida, tech. (see Potash, Potassium hydroxida, USP, pellefs,	Caustic).		medium, bgs., ten
.48	frt. equaldb.	1.29	1.31	coarsa, bas., ton
.57	Potassium lodide, USP, gran., cryal., dms., 1,000-lb. lots divd lb.	10.72	12.39	Pyrazolone red (re works
-	AC8 grade truckload ib. Potassium-magnesium suitete, std., bgs., works ton	11.32 59.00	13.55	Pyreihrum flowers, pyreihrins, io
-	basis 40% K ₂ SO ₄ end 55% MgSO ₄ bulk, works ton	67.00		Pyrethrum, putil., 2 dms., works.
-	Potassium metablisullate, gram., dms.	.44	_	Pyridine, refd., 2-de drns.,
.42 .42	Potsesium muriats, 50-62.4% min. Kg Q, etd., bulk, c.i.,		_	Pyridoxine hydrochio
.40	1rt. equald., 1.o.b. Ssak., Canadaton	44.00	45.00	kilosormors, Pyrilos, Cenadia
.431/2	soluble, fine std., f.o.b	47.00		minos Pyrogaliic ecki (see Py
	coarss, f.o.b. Sask ton gran., f.o.b. Sask ton	49.00 50.50	50.00 51.50	Pyrogatiol, t 00-th. o
.48 -	Potassium nitrate. fert. grade, atd., 50- fon c.l., dvd. SE Ion	287.00	274.00	
•	prised ton tech., gran., bgs., c.l., min. 50 tone,	277.00	284.00	
.741/2	Potassium oxalate, neutral, tech., fine	470.00	-	
.721/2	gran., powd., 300-lb. dm., irt. equaldlb.	2.54	_	
.687	c.l., works	1.01	_	Ouessia chipe Ouine cridono mero
-	dms., sams basis ib. Potassium pentaborate powder 15c. pe	1.06 r lb. higher		red, drns., frt, elid.
-	Potessium perchforals, dms. c.f., worksb.	.78	_	scarist, dms., frt. el violot, dms., irt. elid
_	Polesalum permanganata, irea flow- ing, bulk, hopper trucks,			Quinco seed, bgs
.48	works	1.09 1.20	-	rims., 2,000 d Outrine hydrochlorid
.58	150-kg. dms., same basisb. Potassium permanganate, USP, 50-b.	1.17	-	Outning autisto, USP
.60	kga., works, o.l., t.l b. Potassium persulfete, 225-lb. dma.,	1.36	-	dns., 2,000 d Quinolina, dms., t.l., f
	24,000 lbs. or more, 1.o.b. plant	78.80	-	lanks, same besis.
-	ci/it same beale cwt. Potassium pyrophosphate tetrabasio,	72,50	-	
-	bgs., c.l., t.l., works, E., irt. equald	43.75	47.25	
-	Potassium salicylate, USP, gran., 200- b. dms., 2,000 lbs. or more,	48.00	46.50	
:	works. frt. slid b. USP, powd., 600-lb. dms., 2,000 lba.	1.52	-	Decision 204 mais
1.05	or more, sama basis b. Potasaium silicate, soln., 28.8-30.2	1.42	-	Rasti toch., 304 mole Racemethionine, kilos
-	Be., 2.5 rstlo, 1.c., t.t., works, 100lbs.	16.90		250-500 kilos 500 or more kilos.
	drns., c.l., t.l., works. 100 lbs. Potassium silicate, 40-40.6 Bs., 2.1 rs-	25.60	=	feed grade, 99% m Repeased oil, dms
-	tio, 1.c., t.t., works 100 lbs. 40-40.8 Ba., 2.1 ratio, drns	26.05	-	Rauwolfie serpentina
-	Potassium salicate electropics oracle	32.05	-	Red carmine. No. 40: Red precipitate. (see
.47	100-30.4 58., 2.1-2.2 ratio, 1.0.,	26.10	2	Reservine, USP, crys
.81	sold or glass, 2.15 ratio, clms, cl.	33.10	=	Resorcinoi, USP, cry
49	solid or glass, 2,5 ratio, drys, ct. +1	53.30	-	powd. dris., same
-	"Ratio" Indicates percentaria by Jish	45.65	chidend be	Resordnoi monosce los. or.more.
-	Potassium silicofluorda, bres of 11		a waded by	PMA, dms., fungetated, PTM
-	Potassium-socium tarireta NE gran	-119	.15	\$ WORKS
	Potassium porteta ti cine di la	.80 2.20	1.20 3.10	Rhodinol, 25-b, ons. syn., dms.
1.81	Polasaum sullate, apricultural grade	N.A.		Philiparb root, India,
h -	Lo.b. works	4=4.4=	. 180,00	Ribollavin, feed S divid. Ribollavin, USP, 25
•	Potassium suifata, gran., purif. 400-tb.			Riboflavin 8-phospi kilo lots
		. :	• •	

Petassium totraborata, gran., bgs., o.l. works			
	1.10	_	Rice bran oil, refined dims. 1.1
POCASSOUTH INTRINTRIA TYVIJAA 15.	1.15	:	Richolek: acid (see Castor oil acids, a Richolek: acid (see Poteaelum-sodium Rochek: sair (see Poteaelum-sodium
Polassium thiccyanate, USP, cryst.	u nigher		a _ s _ sisk (see Catellar Dita Little)
tech., cryst., dms., 11	4.01		. BARD OF THE ME. DURINITIES, UNIV
LOIGNAMINI (II WHA LO' CIUS" C'I'	.82	-	ootskil
Poleasium-Ufanium fluorida, lech.	714		NAME OF THE STATISTY OF STATIS
OUTS. LE. WORKS 1/1 printed in	1.24		Tunisian, dms
Polessium-zirconium fluorida tach	.45	14	works unii-li
dms., I.I., works, 1rt. equald	.78		
FIEURISONIO UOP. CITIB., O KIROS (V	49	•	
morogram Predniscione acetele, USP, dine., 5	1.03	-	. C
KNOS OF MOREAFRITA	1.t2	_	
Prednisolono, anhyd., USP, dma., 5 kilos or morogram		-	
Proceine nyerochieride, USP, entible	1.12	-	
otic grade, dms., 2,000-lb, lots, frt. alidlb.			Secharin NF. gran., soluble, dms
Proceine nyurochishee.	4.95	1,16	1,000-lb. lots, irc. 840 m
USP, empute grede, dms., 1,000-			Secharin NF, powd., sokuble, dirts., less than 20,000-lb. lots, Irt. and b
lb. lots, trt. elidlb. Propionaldehyde, tenks, I.o.blb.	4.95 .3514	5.50	Saffower of, non-break, tanka, N.Y , th
Propionic ecid, syn., pure, tanks, divd.			sage leaves, Dalmetian, No. 1, bgs. lo
n-Propyl ecalate, tanks, divd lb.	.33 .53%	310	Menian, 008
n-Propyl acohol, lanks, dvdlb.	A2	B	Turkish
n-Propyl gallate dms., 100 to 2,000-tb.	14 50		Chimatian the
n-Propyl-p-hydroxybenzoste, USP.	11.50	•	Sourish.crs
500 kilos kilo	10.80	-	Salcylaidehyde, tanke, f.o.b lb. Salcylamide, NF, gran., powd., dms.,
tech., 500 kilos, i.o.b kilo Proovi parebenisee n-Proovi-p-hydroxy	10,36 benanalai	•	2,000-lb. lots, one ship lb.
Propyl pareben (see n-Propyl-p-hydroxy Propyl thiouradi, drns., 50-kilo lots or			Salicylic acid, tech., dma., o.l., t.l., works
n-Propylamine, dms., c.f., divdb.	85.00		USP, cryst., dms., 1,000 fbs. or
Procylene, polymer grede, 1.o.b. Tax		-24	usp, powd., dms., 1,000 lbs. or
and La. Guil Coast points . lb. chemical grade same basis lb.	.17%	59	more
Propylane glycol, Indust., Ianks, Lo.b. Ib.	.40	d d	Said (see Phenylsalicylele). (Sait, evaporated, common, 80-lb, bgs.,
USP, tanka, Lo.b. E	.43	£	cl., LL, North, works 80 lbs.
tanke, dlvd. E lb.	.49	-	butk, same basis ton
Propylene oxide, tanks, 1.o.b. works,			themical grade, same basis 80 bs Salt, mck, medium, coarse, same be-
1rt. equald	1.80	125	80 lbs.
Pumice, dom., fine, 4F-0, bgs., ton			Sancake, dom., bulk, works, 100%
medium, 0/2-1/2, bgs., ien bis . ton	270.00 300.00	-	 N.SO., basis, I.o.b., works E ton
coarse, 2-extre coerss, bge., lon			same basis W ton Savistyood of, E. Indian kilo
Purnice, imp., Italian, fines, bgs., ton	300.00	-	Indonesia
lote I.o.b. Eest Coastton	280.00	-	Sercoaine, tech., tanka, works, Irt.
medium, bgs., ten lote. f.o.b. East	080.00		Schaeffer's sait, paste, dms., 100%
Coastton coarse, bas., ton lots (.o.b. East	350.00	•	Dasis, Works
Coasiton	300.00	•	Scopelamina hydrebromida, USP, f00-oz lets bots
Pyrezolone red (red 38), dms.,	525	535	Second acid, CP, bgg., c.l., works., fb.
Pyreihrum flowers, fins ard. 0.9%			puril. bgs., c.l., works
pyrethrins, ion lots, trt. eld.lb. Pyrethrum, purl1., 20% pyrethrins.	1.91	-	Serium, power, 84,88% Se. dms
dms. works	37.50	HI	comi, 99.5% Se. same basie
Pyridine, refd., 2-deg., c.l., works	5.90		DE ME JERVES, AIRXANDTIA, Whole and
drns., kilo tenks kilo	5.70	-	haif, bis
Pyridoxine hydrochloride, USP, 100 kilos or more, divdkilo.	29.00	3900	PATTUL DUSS TOXY
Pyrilos, Cenadian 48-50% S.		540	Sesume of USP, dims., Lc.L
minos Langton	4.50	250	PUPPE, DOS
minos			
Pyrogalic ecki (see Pyrogalici) Pyrogalici, t00-lb. dms., 1,000-lb.,	40.70	41%	LCJ. works paper ogs.,
Pyrogallic eckl (see Pyregallol)	13.70	112	LCJ, works
Pyrogalic ecki (see Pyrogalici) Pyrogalici, t00-lb. dms., 1,000-lb.,	13.70	112	tel. works
Pyrogalic ecki (see Pyrogalici) Pyrogalici, t00-lb. dms., 1,000-lb.,	13.70	112	Lef. works. b. 18th, paper bgs., 1cL, w
Pyrogalic ecki (see Pyrogalici) Pyrogalici, t00-lb. dms., 1,000-lb.,	13.70	112	Lcf., works
Pyrogalic ecki (see Pyrogalici) Pyrogalici, t00-lb. dms., 1,000-lb.,	1370	112	Lef. works ib. 18th, paper bgs., 1c L. works bb. 18th, paper bgs., paper bgs., 1c L. works bb. 18th, paper bgs., paper bgs., 1c L. works bb. 18th, paper bgs., paper bgs., 1c L. works bb. 18th, paper bgs., pa
Pyrogalic ecki (see Pyrogalici) Pyrogalici, t00-lb. dms., 1,000-lb.,	13.70	112	Lef., works. Ib. few, paper bgs., 1cL, works. Ib. few, paper bgs., 1cL, works. Ib. Sica, amorph, dry-grd., bgs., c.f., works 39%, 220 meeh. ton 39%, 200 meeh. ton 39%, 325 meeh. ton 39.5%, 325 meeh. ton
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih. dms., 1,000-ib., lots, divdib.		112	Lcf., works ib. few.paper.bgs., 1cl., works ib. stea, amorph. dry-grd., bgs., c.f., works 83%, 200 meeh ton 95%, 200 meeh ton 95%, 200 meeh ton 95%, 325 meeh ton 95%, 400 meet, mioranized ton 95% under the microsol ton
Pyrogalic ecid (see Pyrogalici) Pyrogalici, t00-lh, dms., 1,000-lb, lots, divdlb.	13.70	-	Lcl., works. bb. few, paper bgs., 1cl., works. bb. stea, amorph, dry-grd., bgs., c.f., works 35%, 220 meeh. ton 55%, 220 meeh. ton 55%, 225 meeh. ton 55%, 325 meeh. ton 59.5%, 325 meeh. ton 59.5%, 325 meeh. ton 59.5%, 325 meeh. ton 59.5%, 325 meeh. ton 58.5%, dry-grd., tys., cl., works, 99.5%, 400 meet, mornized. ton 99% under 15 microns. m1- ordized. ton
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-lh, dms., 1,000-lb, lots, divdlb. Ouessia chipe	.57 20.75	- 212	Lcl., works. bb. few.paper bgs., 1cl., works. bb. stea. amorph. dry-grd., bgs., c.f., works 35%, 220 meeh. ton 55%, 220 meeh. ton 55%, 225 meeh. ton 55%, 325 meeh. ton 59.5%, 325 meeh. ton 59.5%, 325 meeh. ton 59.5%, 325 meeh. ton 59.5%, 325 meeh. ton 58.5%, dry-grd., tys., cl., works, 99.5%, 400 meet, mornized. ton 99% under 15 microns. m1- ordrized. ton
Pyrogalic ecid (see Pyrogalici) Pyrogalici, t00-ih, dms., 1,000-ib., lots, divdib. Ouessia chips	.57 20.76 17.75	21 Z 19 Z 21 Z	LCL, works. Ib. few, paper bgs., 1cL, works. Ib. few, paper bgs., 1cL, works. Ib. 5fca, amorph, dry-ord., bgs., c.f., works 37%, 200 meeh. ton 55%, 200 meeh. ton 55%, 325 meeh. ton 95.5%, 325 meeh. ton 95.5%, 325 meeh. ton 95.5%, 325 meeh. ton 95.5%, 325 meeh. ton 95%, under to microna. micronized. 95% under 10 microna. micronized. ton
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-lh, dms., 1,000-lb., lots, divd	.57 20.25 17.75 21.75 17.76	21 P. 12 P.	Lcl., works. bib. few.paperbgs., 1cl., works. bb. Sics., amorph. dry-grd., bgs., c.f., works 83%, 200 meeh. ton 95%, 200 meeh. ton 95%, 205 meeh. ton 95%, 325 meeh. ton 95%, under 10 microns. microvized. ton 99% under 10 microns. microvized. ton 10 meeh. bgs., c.l., works. ton 140 meeh. bgs., c.l., works. ton
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib., lots, divd	.57 20.75 17.75 21.75	21 2 19 2 24 2 16 0 2 7	Lcl., works. bb. few, paper bgs., 1cl., works. bb. few, paper bgs., 1cl., works. bb. few, paper bgs., 1cl., works. bb. few, amorph. dry-ord., bgs., cf., works 39%, 200 meeh. ton 95%, 200 meeh. ton 95%, 325 meeh. ton 95%, 325 meeh. ton 95%, 325 meeh. ton 99% under 16 microns. mi- cronized. ton 99% under 10 microns. mi- cronized. 100. 5502, hard-quartz, 99,5% SIO ₂ , 3255 meeh. bgs., cl., works. ton 55001 terscribolide, lech., dme., ct., works.
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib., lots, divd	.57 20.25 17.75 21.75 17.76	21 P. 12 P.	Lcl., works. bib. few.paperbgs., 1cl., works. bb. Sics., amorph. dry-grd., bgs., c.f., works 83%, 200 meeh. ton 95%, 200 meeh. ton 95%, 325 meeh. ton 96% under 16 microns. microvized. ton 99% under 10 microns. microvized. ton 99% under 10 microns. microvized. ton 550x, hard-quartz, 99,5%, SiO ₂ , 325 meeh. bgs., c.l., works. ton 16 meeh. bgs., c.l., works. ton 550x herd-quarts, 99,5%, SiO ₂ , 325 meeh. bgs., c.l., works. ton 550x herd-quarts, 99,5%, GiO ₂ , 325 meeh. bgs., c.l., works. ton 550x herd-quarts, 99,5%, GiO ₂ , 325 meeh. bgs., c.l., works. ton 550x herd-guarts, 99,5%, GiO ₂ , 325 meeh. bgs., c.l., works. ton 16 meeh. bgs., c.l., works. ton 16 meeh. bgs., c.l., works. ton 17 meeh. bgs., c.l., works. ton 18 meeh. bgs., c.l., works. ton 19 meeh. bgs., c.l., works. ton 10 meeh. bgs., c.l., works. ton
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib., lots, divd	.57 20.25 17.75 21.75 17.76 2.00 4.20	21 2 19 2 24 2 16 0 2 7	Lcl., works. bb. few, paper bgs., 1cl., works. bb. 5fice, amorph. dry-ord., bgs., c.f., works 39%, 200 meeh. ton 35%, 200 meeh. ton 35%, 325 meeh. ton 35 %, 325 meeh. ton 35 5%, 325 meeh. ton 35 5%, 325 meeh. ton 39 5% under 16 microns. mi- cronized. ton 39 % under 10 microns. mi- cronized. ton 39 % under 10 microns. mi- cronized. ton 55cs. hard-quarts. 99,5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55con ferrechords, lech., dme., ct., works. b. lanks. works. b. Sant bush. I knots, cs., Troy. Cz.
Pyrogalic ect/ (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib., lots, divd	.57 20.75 17.75 21.75 17.76 2.00 4.20 2.45	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcl., works. bb. few, paper bgs., 1cl., works. bb. few, paper bgs., 1cl., works. bb. 5fca. amorph. dry-grd., bgs., c.f., works 35%, 220 meeh. ton 5%, 200 meeh. ton 5%, 200 meeh. ton 5%, 325 meeh. ton 6%, 325 meeh. ton 5%, 325 meeh. ton 6%, 325 meeh. ton 6%, 325 meeh. ton 99% under 10 microns. mil- cronized. ton 99% under 10 microns. mil- cronized. ton 5%, 325 meeh. ton 6%, 325
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 17.76 2.00 4.20 2.45	21 E 22 E	Lcl., works. b. 16., works. b. 16., works. b. 16., works. b. 16., works. c., works. b. 16., works. 300 meeh. ton 16., works. 300 meeh. ton 16., 305 meeh. ton
Pyrogalic ect (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 17.76 2.00 4.20 2.45	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. 16., works. b. 18., works. b. 19., works. b. 10., works. b
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 12.76 2.00 4.20 2.45 2.30 1.49	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bb. 16., works. bb. 16., works. bb. 16., works. bb. 16., works. bc. 16.,
Pyrogalic ect (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 12.76 2.00 4.20 2.45 2.30 1.49	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcl., works. bb. Few, paper bgs., 1cl., works. bb. Few, paper bgs., 1cl., works. bb. Sica. amorph. dry-grd., bgs., c.f., works 39%, 220 meeh. ton 3%, 97%, 325 meeh. ton 3%, 97%, 325 meeh. ton 39.5%, 325 meeh. ton 39.5%, 325 meeh. ton 39.5%, 325 meeh. ton 55ca, try-gd., tys., cl., works, 99.8%, 400 meen, mionorized. ton 99% under 10 microns. mil- cronized. ton 99% under 10 microns. mil- cronized. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 140 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., cl., works. ton 55ca hard-quartz, 99.5% SIO ₂ , 325 meen, bgs., ton-per ton-
Pyrogalic ect (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 12.76 2.00 4.20 2.45 2.30 1.49	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. 1c., works. c. f. 1c., s. f. 1c., s
Pyrogalic ect (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 12.76 2.00 4.20 2.45 2.30 1.49	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. 16.1, works. b. 16.1, works. b. 16.2, works. b. 16.3, works. b. 16.3, works. b. 16.4, works. b. 16.5,
Pyrogalic ect (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 12.76 2.00 4.20 2.45 2.30 1.49	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bb. 164, works. bb. 164, spaper bgs., 1cf., works. bb. 164, spaper bgs., 1cf., works. bb. 165, sea amorph. dry-grd., bgs., c.f., 165, works 93%, 200 meeh. ton 165, 200 meeh. ton 165, 325 meeh. ton 160 meen, minomized. ton 160 meen, minomized. ton 160 meen, 160 mer 100 milorons. milorovized. ton 160 meeh, 165, c.f., works. t
Pyrogalic ect (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 12.76 2.00 4.20 2.45 2.30 1.49	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. 16., works. b. 16., see, amorph. dryords. bgs., c.f., works. 93, 200 meeh. ton 93, 97%, 325 meeh. ton 93, 97%, 325 meeh. ton 93, 97%, 325 meeh. ton 93, 5%, 325 meeh. ton 93% under 15 microns micronized. ton 99% under 10 microns micronized. Ion 140 meeh, bgs., c.l., works. ton 550s herd-quartz, 99,5% SiOz, 325 meeh, bgs., c.l., works. ton 550s herd-quartz, 99,5% SiOz, 325 meeh, bgs., c.l., works. ton 550s herd-quartz, 99,5% SiOz, 325 meeh, bgs., c.l., works. ion 550s herd-quartz, 99,5% SiOz, 325 shr mizele, ACS, 58,2 Troy oz, AG/100 avoir, oz, AgNO3, oz, 550s seh, dense, 58%, 100-lib., paper bgs., c.l., same beeks. Ion 188%, 100-b, paper bgs., c.l., bacc, sursic, to, 80%, selfers tanks, Gut Coast works, 10,b. Int.
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divdib. Outneerldone meroon, dms., 171. alidib. red, dms., frt. elidib. scarist, dms., frt. elidib. scarist, dms., frt. elidib. volot, dms., frt. elidib. volot, dms., frt. elidib. Outnee sood, bgsib. Outne	.57 20.75 17.75 21.75 12.76 2.00 4.20 2.45 2.30 1.49	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. 16.4, works. b. 16.4, works. b. 16.5, works. b. 16.6, works. b. 16.6, works. cf. 16.7, works. co. 16.8, 200 meeh. ton 16.8, 200 meeh
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib., lots, divd	.57 20.75 17.75 21.75 17.75 2.00 4.20 2.45 2.30 1.40 1.43	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bb. Tew, paper bgs., 1cL., works. bb. Since, amorph. dry-grd., bgs., c.f., works 39%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35%, 325 meeh. ton 39% under 16 microns. mil- cronized. ton 39% under 10 microns. mil- cronized. ton 5502, herd-quartz, 99,59% SiO ₂ , 325 meeh. bgs., cl., works. ton 5503, herd-quartz, 99,59% SiO ₂ , 325 meeh. bgs., cl., works. ton 5504, herd-quartz, 99,59% SiO ₂ , 325 meeh. bgs., cl., works. ton 5505, herd-quartz, 99,59% SiO ₂ , 325 meeh. bgs., cl., works. ton 5506, herd-quartz, 99,59% SiO ₂ , 325 meeh. bgs., cl., bgs. Sant-bs., bgs., cl., bgs.,
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 17.76 2.06 4.20 2.45 2.40 1.49 1.43	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. Tew, paper bgs., 1cf., works. b. Sice, amorph. dry-ord., bgs., c.f., works 83%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35%, under 15 microns. mi- crovized. ton 39% under 10 microns. mi- crovized. ton 550s. hard-quartz, 99,5% SiO ₂ , 325 meeh. bgs., cl., works. ton 550s. hard-quartz, 99,5% SiO ₂ , 325 meeh. bgs., cl., works. ton 550s. hard-quartz, 99,5% SiO ₂ , 325 meeh. bgs., cl., works. ton 550s. hard-quartz, 99,5% SiO ₂ , 325 meeh. bgs., cl., works. ton 550s. hard-quartz, 99,5% SiO ₂ , 325 meeh. bgs., cl., works. ton 550s. hard-quartz, 99,5% SiO ₂ , 325 hard-quart
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 21.75 17.76 2.00 4.20 2.45 2.50 1.40 1.43	2000年2000年2000年2000年2000年2000年2000年200	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sics. amorph. dry-grd., bgs., c.f., works 93%, 200 meeh. ton 93%, 97%, 325 meeh. ton 93%, 97%, 325 meeh. ton 93.5%, 325 meeh. ton 93% under 10 microns. mil- crosized. ton 99% under 10 microns. mil- crosized. ton 10 meen, bgs., cl., works. ton 90% under 10 microns. mil- crosized. ton 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., ton 100
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	.57 20.75 17.75 21.75 21.75 17.76 2.00 4.20 2.45 2.50 1.40 1.43	2000年2000年2000年2000年2000年2000年2000年200	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sics. amorph. dry-grd., bgs., c.f., works 93%, 200 meeh. ton 93%, 97%, 325 meeh. ton 93%, 97%, 325 meeh. ton 93.5%, 325 meeh. ton 93% under 10 microns. mil- crosized. ton 99% under 10 microns. mil- crosized. ton 10 meen, bgs., cl., works. ton 90% under 10 microns. mil- crosized. ton 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., cl., works. ton 90% under 10 microns. mil- 100 meen, bgs., ton 100
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	20.75 17.75 21.75 21.75 2.00 4.20 2.45 2.30 1.46 1.43 2.12 8.80 8.80 8.60	2000年2000年2000年2000年2000年2000年2000年200	LCL, works. bb. Tew, paper bgs., 1cL, works. bb. Sies, amorph, dry-ord., bgs., cf., works 39%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 325 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 36%, 36% meeh. ton 36%, 36% meeh. ton 36%, 36%, 36%, 36%, 36%, 36%, 36%, 36%,
Pyrogaliic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	20.75 17.75 21.75 17.76 2.00 4.20 2.45 2.40 1.49 1.43 2.12 6.90 9.90 9.90 9.90 1.67 1.67	2000年2000年2000年2000年2000年2000年2000年200	LCL, works. bb. Few, paper bgs., 1CL, works. bb. Sica, amoph. dry-ord., bgs., cf., works 39%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 325 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35%, 325 meeh. ton 36%, under t5 milcrons. mil- crovized. ton 39%, under t6 milcrons. mil- crovized. ton 39%, under 10 milcrons. mil- crovized. ton 550z, ferd-quartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-quartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-quartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-quartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-quartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-quartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-quartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-guartz, 99.5%, SiO ₂ , 325 meeh. bgs., cl., works. ton 550z, ferd-guartz, 99.5%, SiO ₂ , 50.5 Sincherk, rovshed, bis. John bgs., for bgs., cl., bgs., bgs., cl., bgs., cl., same beals. Son bgs., cl., works., lo.b., irt. 90z, 76%, 400-b, dra, cl., works. John, 76%, 450-lb, drms, cl., works. John, 76%, 450-lb, drms, cl., works. John, 76%, 400-b, drms, cl., works. John bed., 76%, 400-b, drms, cl., John bed.,
Pyrogalic ecid (see Pyrogalici) Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	20.75 17.75 21.75 21.75 21.75 2.00 4.20 2.45 2.50 1.49 1.43 2.12 8.60 8.60 1.67 1.67 2.00 4.00	2000年2000年2000年2000年2000年2000年2000年200	Lcf., works. b. Tew, paper bgs., 1cf., works. b. Sice, amorph. dry-ord., bgs., c.f., works 87%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 39.5%, 325 meeh. ton 39% under 15 microns. mil- crovized. ton 39% under 10 microns. mil- crovized. ton 39% under 10 microns. mil- crovized. ton 39% under 10 microns. mil- crovized. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% SiO ₂ , 325 meeh. bgs., c.i., works. ton 550s. hard-quarts, 99.5% Ag. 500-02 lots oz. 550s bash, caused, bis. 550s
Pyrogalic ecid (see Pyrogalici) Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	20.75 17.75 21.75 17.75 2.00 4.20 2.45 2.40 1.40 1.43 2.12 8.00 8.00 1.07	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. Tew, paper bgs., 1cl., works. b. Sice. amorph. dry-ord., bgs., c.f., works 83%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 39.5%, 325 meeh. ton 39% under 15 microns. mi- oroxized. ton 39% under 10 microns. mi- oroxized. ton 550s. hard-quarts. 99.5% SiO ₂ , 325 meen, bgs., c.i., works. ton 550s. hard-quarts. 99.5% SiO ₂ , 325 meen, bgs., c.i., works. ton 550s. hard-quarts. 99.5% SiO ₂ , 325 meen, bgs., c.i., works. ton 550s. hard-quarts. 99.5% SiO ₂ , 325 meen, bgs., c.i., works. ton 550s. hard-quarts. 99.5% SiO ₂ , 325 meen, bgs., c.i., works. ton 56ss. bessel, bgs., c.i., bgs. 56ss. bgs., c.i., bgs., c
Pyrogalic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	20.75 17.75 21.75 21.75 21.75 2.00 4.20 2.45 2.50 1.46 1.43 2.12 8.60 8.60 8.60 1.47 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LCL, works. bb. Tem, paper bgs., 1cL, works. bb. Sica, amoph. dry-ord., bgs., cf., works 39%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 325 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 35%, 325 meeh. ton 36%, under t5 milcrons. mil- crovized. ton 36% under 10 milcrons. mil- crovized. ton 36% under 10 milcrons. mil- crovized. ton 36% under 10 milcrons. mil- crovized. ton 550x, ferquarts, 99.5% SiO ₂ , 325 meen, bgs., cl., works. ton 550x, ferquarts, 99.5% SiO ₂ , 325 meen, bgs., cl., works. ton 550x, ferduarts, 99.5% SiO ₂ , 325 meen, bgs., cl., works. ton 550x, ferduarts, 99.5% SiO ₂ , 325 meen, bgs., cl., works. ton 550x, ferduarts, 99.5% SiO ₂ , 325 meen, bgs., cl., works. ton 550x, ferduarts, 99.5% SiO ₂ , 325 meen, bgs., cl., works. ton 56x, servised, sex, Troy 02. Sher hotels, ACS, 38, 2 Troy 02. AG/ 50x, bds., crushed, bis. bb. 50x, sah, dense, 58%, 100-lb., paper back, crushed, bis. b. 50x, sah, dense, 58%, 100-lb., paper back, cl., same basis. ton 50x, cursic, fc., 80%, seffers tanks, 0xif Coast works, 1.o.b., int. 90xif Coast works, 1.o.b.,
Pyrogaliic ecid (see Pyrogalici) Pyrogalici, 100-ih, dms., 1,000-ib, lots, divd	20.75 17.75 21.75 17.75 21.75 17.76 2.00 4.20 2.45 2.40 1.43 2.12 8.00 8.00 1.07 8.00 8.00 1.07 8.00 8.00 1.07 8.00 8.00 8.00 8.00 8.00 8.00 8.00 8	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sica. amorph. dry-grd., bgs., c.f., works 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 36%, under 15 microns. mi- crosized. ton 36% under 10 microns. mi- crosized. ton 36% serviced. ton 36% servi
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd. ib. Ouissia chips b. Ouinecridono mero on, dms., tri. elid. ib. red, drns., frt. elid. ib. red, drns., frt. elid. ib. violot, dms., frt. elid. ib. Ouinidino sulfato, USP, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino sulfato, USP, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino sulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino sulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, VIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, SVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, XVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, SVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, SVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, SVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, SVIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. Ouinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. Ouinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. Duinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. Duinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. Duinino aulfato, USP, 1,000-oz. dms., 2,000 oz. or more. d	20.75 17.75 21.75 21.75 21.75 2.00 4.20 2.45 2.50 1.49 1.43 2.12 8.60 8.60 1.67 1.67 2.00 4.00 4.00 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sica. amorph. dry-grd., bgs., c.f., works 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 36%, under 15 microns. mi- crosized. ton 36% under 10 microns. mi- crosized. ton 36% serviced. ton 36% servi
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd	20.75 17.75 21.75 21.75 21.75 2.00 4.20 2.45 2.50 1.49 1.43 2.12 8.60 8.60 1.67 1.67 2.00 4.00 4.00 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sica. amorph. dry-grd., bgs., c.f., works 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 36%, under 15 microns. mi- crosized. ton 36% under 10 microns. mi- crosized. ton 36% serviced. ton 36% servi
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd	20.75 20.75 21.75 21.75 21.75 2.00 4.20 2.45 2.50 1.46 1.43 2.12 8.60 8.60 1.47 2.20 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.6	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bit. Tem., paper bgs., 1cL., works. b. Sica. amoph. dry-ord., bgs., c.f., works 83%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35.5%, 325 meeh. ton 39.5%, 325 meeh. ton 39% under 15 microns. mi- orovized. ton 39% under 10 microns. mi- orovized. lon 39% under 10 microns. mi- orovized. lon 39% under 10 microns. mi- orovized. lon 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. ton 55ca. hard-quartz, 99.5% SiO ₂ , 325 meeh. bgs., cl., works. b. 55ca. hard-guartz, 99.5% SiO ₂ , 325 hard-guartz, 99.5% har
Pyrogaliic ecid (see Pyrogalici) Pyrogaliic, 100-ih, dms., 1,000-ib, lots, divd	20.25 17.75 21.75 17.75 21.75 17.76 2.00 4.20 2.45 2.40 1.43 2.12 8.00 8.00 1.07 1.07 1.07 1.00 8.00 1.07 1.07 1.00 1.00 1.00 1.00 1.00 1	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bb. Tew., paper bgs., 1cL., works. b. Sics. amorph. dryord bgs., c.f., works 83%, 200 meeh ton 35%, 200 meeh ton 35%, 325 meeh ton 35%, 325 meeh ton 35.5%, 325 meeh ton 36% under 15 microns. mi- crosized ton 39% under 10 microns. mi- crosized ton 30% seric ton 39% under 10 microns ton 30% seric ton 30% ser
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd	20.75 20.75 21.75	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sics. amorph. dryord bgs., c.f., works 83%, 200 meeh ton 35%, 200 meeh ton 35%, 325 meeh ton 36% under 15 microns. mi- crosized ton 39% under 10 microns. mi- crosized ton 30% perchased t
Pyrogallic ecid (see Pyrogalici) Pyrogallic ecid (see Pyrogalici) Pyrogallic, 100-lh, dms., 1,000-lb, lots, divd	20.25 17.75 21.75 17.75 21.75 17.76 2.00 4.20 2.45 2.40 1.40 1.43 2.12 8.00 8.00 1.07 1.07 1.00 1.00 1.00 1.00 1.00 1	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sics. amorph. dryord. bgs., c.f., works 8%, 200 meeh. ton 3%, 97%, 325 meeh. ton 3%, 97%, 325 meeh. ton 3%, 97%, 325 meeh. ton 3% 5%, 325 meeh. ton 39.5%, 325 meeh. ton 55cs, dryod, bgs., cl. works, 98.5%, 40 meet, minorized. ton 98% under 10 milcrons. mil- crosized. ton 99% under 10 milcrons. mil- crosized. ton 99% under 10 milcrons. mil- crosized. ton 55cs, hard-quart, 98.5% SIO ₂ , 325 meeh, bgs., cl., works. ton 55cs, hard-quart, 98.5% SIO ₂ , 325 meeh, bgs., cl., works. ton 55cs, hard-quart, 98.5% SIO ₂ , 325 meeh, bgs., cl., works. ton 55cs, hard-quart, 98.5% SIO ₂ , 325 meeh, bgs., cl., works. ton 55cs, hard-quart, 98.5% SIO ₂ , 325 meeh, bgs., cl., works. ton 55cs, hard-quart, 98.5%, 51O ₂ , 325 sare beaks. in 100 avoir, a. Troy oz. AG/ 100 avoir, a. AgNO3 oz. 55rs, bard, cl., sare beaks. ton 100 avoir, a. Sare beaks. ton 100 avoir, a. Sare beaks. ton 100 avoir, bys., selfers tanks, Gut Coast works, 1.0.b., int. equipper for sold, and \$20-\$30 ton 100 avoir, a. Sare beaks. 100 avoir, bys., selfers tanks, Gut Coast works, 1.0.b., int. equipper for sold, and \$20-\$30 ton 100 avoir, bys., form, cl., 100 avoir, bys., form, cl., 100 avoir, bys., selfers tanks, 100 avoir, a. Sare beaks. 100 bys., selfers tanks, 100 avoir, bys., selfers
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd	20.75 20.75 21.75	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. Tew., paper bgs., 1cf., works. b. Sice. amorph. dry-ord., bgs., c.f., works 89%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35%, under 15 microns. mi- crovized. ton 39% under 10 microns. mi- crovized. ton 300 sector. a ton 39% under 10 microns. mi- crovized. ton 300 sector. a ton 300 sector.
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd	20.75 20.75 21.75	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. Tew., paper bgs., 1cL., works. b. Sics. amorph. dryord bgs., c.f., works 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 200 meeh. ton 35%, 205 meeh. ton 35%, 325 meeh. ton 35%, 325 meeh. ton 35.5%, 325 meeh. ton 35%, under 15 microns. microvized. ton 39% under 10 microvized. See
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd	20.75 20.75 21.75	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. bit. Tew., paper bgs., 1cL., works. b. Sica. amorph. dry-grd., bgs., c.f., works 38%, 200 meeh. ton 38%, 205 meeh. ton 39.5%, 325 meeh. ton 39.5%, 32
Pyrogallic ecid (see Pyrogalici) Pyrogallic, 100-lih, dms., 1,000-lib, lots, divd. lib. Ouine cridono mero on, dms., 171. alid. lib. red, dms., frt. elid. lib. scarist, dms., frt. elid. lib. scarist, dms., frt. elid. lib. volot, dms., frt. elid. lib. Ouinco sood, bgs. lib. Ouinco sood, bgs. lib. Ouinco sood, bgs. lib. Ouinco sood, bgs. lib. Ouindino sulfato, USP, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinine aulfato, USP, VIII, 1,000-oz. dms., 2,000 oz. or more. oz. Ouinine aulfato, USP, SO-250 kilos. dms., 2,000 oz. or more. oz. Ouinine aulfato, USP, SO-250 kilos. lanks, same beals. lib. Racemeithionine, USP, SO-250 kilos. feed grade, 99% min., cl., Ll. lib. Repseed ol, dms. Rauwoifie serpentina root, powd. bs., divis. Resorcinol tech., bgs., Ll., works. divd. Resorcinol tech., bgs., Ll., works. divd. Resorcinol tech., bgs., Ll., works. divd. Resorcinol monoscetale, dms., lib. powd., dms., same baste, kilo. Resorcinol monoscetale, dms., lib. sormore. Rhodamine red toner, molybdetad, pNA, dms., works. lungetated, PTMA, dms., lob. sormore. Rhodamine red toner, molybdetad, pNA, dms., lib. soyn, dms. Rhodamine, works. lib. Shubarbroot, indie, whole, bgs., lib. powd., bgs. Rhootlaviri, feed grads, 20 kilos. Rhootlaviri, feed grads, 20 kilos. Rhootlaviri, feed grads, 20 kilos.	20.75 20.75 21.75	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. Tew., paper bgs., 1cf., works. b. Tew., paper bgs., 1cf., works. b. Sica. amorph. dry-ord., bgs., cf., works 93%, 200 meeh. ton 93%, 207 meeh. ton 160 meeh. bg., cl., works. ton 160 meeh. bg., cl., ame beeks. ton 160 meeh. bg., cl., same beeks. ton 160 meeh. beeks. ton 160 meeh. bg., cl., same beeks. ton 160 meeh. beeks. ton 160 meeh. bg., cl., same beeks. b., sa
Pyrogalic ecid (see Pyrogalici) Pyrogalic, 100-ih, dms., 1,000-ib, lots, divd. ib. Outneerldone mere on, dms., irl. elid. ib. red, dms., frt. elid. ib. scarist, dms., frt. elid. ib. scarist, dms., frt. elid. ib. outnee seed, bgs. ib. Outnee hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Nicotalis, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Outnine hydrochloride, NF, 1,000-oz. dms., 2,000 oz. or more. oz. Ou	20.75 20.75 21.75	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Lcf., works. b. Tew., paper bgs., 1cf., works. b. Tew., paper bgs., 1cf., works. b. Sica. amorph. dry-ord., bgs., cf., works 93%, 200 meeh. ton 93%, 207 meeh. ton 160 meeh. bg., cl., works. ton 160 meeh. bg., cl., ame beeks. ton 160 meeh. bg., cl., same beeks. ton 160 meeh. beeks. ton 160 meeh. bg., cl., same beeks. ton 160 meeh. beeks. ton 160 meeh. bg., cl., same beeks. b., sa
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ims. t.l lb. estor oil acids, api seelum-sodium te	ft).	.	Sodium bicarbonate, U6P, powd., reg. grade, bgs., o.l., t.l., works, iri.			S
alter offch, roofing			Coarse same hasis 10/1bs	17.05	-	s
Bulgarian, otto.	3850.00	3990.00	Gran, same basis 100 hs.	17.20	-	
its	6.00	11.00	Sodium bichromate eran bos all 14	17.80	-	S0
%, 100-lb. dma.	6.75		Sodium billuoride, 400-ib com ol	.57	-	- 1
wil-lb.	.21	.23	Irt. equald		_	Sc 80
			I COMMENDED THE CITY OF MARKET	470.00	:	So
			dms., c.f.,	13.00	-] ~
			works West 100 lbs.	26.50 62.00	-	So
			0656, works, East 100%	20.60	_	So
soluble, dms.			soh., 100%, bulk, works, West 100 lbs. photographic grade, 43% soin.,	20.00		
frt. elfd fb. okuble, dins., less	2.50	2.75	Sodium borals NF, gran, bgs., c.l.,	21.90	-	So
lots, frt. ald. b. tanks, N.Y tb.	3.75 .50	.53	DOWG same hasis	.51	-	-10
vd lb. n, No. 1, bgs. lb.	.98 1.95	1.02	1 COULDING TO STATE OF THE PARTY OF THE PART	.52	- 1	13
fb.	1.65 1.25	1.30	Sodium borohydride, stabilized water	15.66	21.90	1
, bots kilo lb.	80.00 9.50	10.00	son, 12% NaBH, 100% basis, 3000 gal, tankwagon, works. b.	17.45	_	
f.o.b lb.	12.50 3.60	-	dms. 10 h works	1.04	_	
, powd., dms.,		-	C.L. I.L. works	004.00		So
one shipib. dma., o.l., t.l.,	1.07	1.10	Sodium carbonate, cryst monohydrate	(see Sode	ash)	So
1,000 fbs. or	1.23	1.41	Sodium carboxymethyl call loss (see C	382.00	-	So
1,000 lbs. or	1.33	1.63	Sodium chlorate, crystal, bulk, t.c., t.t., delivered, N.E			1
ele).	1.68	-	QUIVERBIL B.F. ton	330.00 335.00	Ξ	So
von, 80-lb, bgs., works60 lbs.	4.02	_	Sodium chlorate, cryet., 450-lb, dms., c.l., worke, E	.27	-	So
e basis 80 bs.	60.00 4.30	81.20	Sodium chloride, tech. (see Selt.) Sodium chloride, USP, gran., bgsib.	.29	-	"
arse, same ba-	2.70	_	works, tech., ame., c.l.,	1.17	1.27	
	18.00	25.00	t.l., works	.67	-	
b. works E ton	65.00	98.00	C.I. t.I., works	.64		So
	60.00 145.00	96.00	dris. cl. tl. NV	1.65		
a, works, irt.	102.00	-	Sodium citrate, USP, gran., dihydrate, 100-lb. bgs., t.l., 1.o.b. ehip-	1.00	-	'
dms., 100%	.50	-	Sodium cyanale, dms. 1,000-lb. lots,	.741/2	-	Soc
omida, USP,	2.59	-	WOKA Ih	.65	-	Soc
is oz.	36.00 1.95	46.50	Sodium cyanide, briquettes or gran. 99% min., 200-lb. dms, min.,			
000-lb. lots. lb.	1.94 .30V2	<u>-</u>	Sodium discelete, enhyd, dms. c.l.	.71	-	
9% Se, dms., lb.	13.00		Sodium discetale, FCC, 50-in has	.68	-	
e basieb.	10.00	15.00	I.I., divd. E. ol Rockles ib. Sodium discetale, Iech., 50-ib. drns.,	.61	.67	
lb.	.75	.80	Sodium erythorbate, powd., aren., I.I.	.52	-	١
lb.	.70	.71 1.10	or mixed t.l., 1.o.b. shipping	2.60	2.85	_ "F
cl1b. af American,	1.00	1.20	Sodium terrocyanida, bos. I.I.	ier.	2.00	Soc
peper bgs.	.55	.56	Works. ib. Sodium fluoborate, tech., gran., drns.,	.60	-	Sod
worksb.	.161/2	.281/2	t.l., works, frt. equald ib. Sodium fluoride, while, 97%, 400-ib.	1.77	-	Sod
meen ton	31.00	32.50	Oms., C.L. Works, it, equald. Ib.	.6345	-	te
h ton	32.00 34.50	33.50 35.50	100 bgs., c.l., eame basis ib. USP powd., 200-lb. dma., t.l.,	.60	-	Sod
ton	37.00 51.50	54.50	Lo.b. shipping pointib. Sodium lormate, bga., c.l., worksib.	4.69 .20	-	000
works, 99.9%, izedton	72.00		Sodium gluconata, lech., 50-lb. bga., 2,500 lbs. or more frt. alid. ib.	.80	_	Sod
icrons, mi-		75.50	NaH, 187-Ib. dms., 10 dms.,			Sod
icrons, mi-	76.50	82.50	Sodium hydrosulfide, (see Sodium sulfhw	1.68 drate.)	-	llo
% SIO ₂ , 325	04.00	105.00	Socium ryorceulite, dms., c.l., t.l.,	.84	_	Sodi
workston	37.00 34.75	=	1.6.b. shipping point E b. Sodium hydroxide, USP, pellete, 100- b. dms., c.l., tl., works, frt.			
o., dma., c.t.,	.50	_	equaldib. Sodium hydroxide, tech. (see Soda, caust	.65	.98	8od
Troyoz.	.38 6.55	=	Sodium hypophosphite, EN grado, 300 lb. dns Lo.b. workslb.	1.425	1.50	Sodi
Troy oz. AG/	4.43	-	110 to. data	1.47	1,52	Sodii Sodii
NO ₃ oz.	3.32	=	Sodium lodide, USP, cryst., 300- to 500- b. lots, drss. fri. equeld lb.			Sodi
00-lb. paper	1.35	1.65	1 SOULUM BURY SURFAIR. SURF TANKS.	14.72	-	Sock
D.D (07) 12	20.00 83.00	-	1.o.b. works ib. Sodium tignin sulfonete, bgs., o.l.,	.29	.32	١
per bgs., c.l.,	50.00	-	Sodium metablauffite (see Sodium bisulfite	25.50).	-	tec
	23.00	Ξ	Sodium metaborete, ociahydrete, gran, bgs., o.l., workslb.	.38	-	Sodiu
8, 1.o.b., 1rt.			tetrafiydrate, gran, bgs, c.l.,	.48		ory
	15.00	195.00 225.00	Sodium, metalio, 12-lb. bricks, dms., o.l. works	.93	-	Sodk
18, C.I,		870.00	fused, dms. 24,000-lb, lots or more, workslb.	.87	_	Sodiu
118,0.1,	00.00	570.00	tanka works	.70	.80	Sode
dme., o.l.,	20.00	-	Sodium metaphosphate, tech. bgs., o.l., f.o.b. shieping p1. Irt. equald 100 lbs. food grade, bgs. c.l. f.o.b. frt. equald.	81.50		bulk food
dme., o.l., 100 lbs. 2 \$15 ton higher. i nd \$20-\$30 ton h	7.80	28.50	food grade, bgs. c.l. f.o.b. frt. equald.		-	Sodiu
	igher for	gran. and	Sodium metasticate, armyd., bgs., o.l.	68.25	-	SUGIU
bgs., c.l.	205		bulk, c.l., works 100 lbs.	27.25 26.30	:	Folk
. bgs., c.l.,	3,35	3.86	pentahydrate, bgs., c.l., f.o.b. ship- ping point 100 lbs.	18.95	-	Sodku
9ran. 100-	.54	-	EXIK, O.I. WORKS, 100 E.S.	17.20		Sodiu
8b.	.57	-		4.87 · 4.12		Sodium
oms. 100-	5.00	8.75	Sodium naphthlonate, citis., c.l., 1.l.,	2.00		tech
re, 1.o.b.	4.78	_	Sodium Nitrate, USP, bos., cJ., f.o.b.,	4.50		Solven
one 100	1,48	1.50	Sadkim nitrate, dom.; industrial, bas.,		2.00	
	8.30	10.50	bulk of works ton 25	0.00	7	. ;
50-lb. bgs.	.701/2	-	COURT MINESON.	5.00 21 2.00	4.00	Solveni
b.	.83%	- 1	into sgrigultursi, bulk, o.l.,	0.00	2.14	. !
ne basis, ib. Ib.	.68	-	Sockern ritifita, USP, dras., o.l., works,	0.00 7.25		Sorbio
	.82	. - .l	frt. equilid 100 lba. 3			
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	bos of trade	hyd.			1 6					
	Sodium orihosilicate, tech., hydr	abed .	34.50	-	- 11	AH			A 1	
	flake, dris., cJ., works. 10 bgs., c.l., works. 10		27.45 26.25	=	- 11		EN			11
	Sodium oxelate, 89%, bga., t.l., work Sodium pentachiorophenale, b	obdo	.45	-	Ш	VII	و کا بجھا ا		Vi	1 L
	c.l., 60,000-lb min bgs		.67 .66	Ξ	- }	BB	IAI			
	Sodium perborate, tetrahudrate	erbital-	aodium).		-iI	MA		. .		
	Sodium persuliste, 225-lh, rims, 2	lb.	.321/	.361/2	·		IC			
	55-b.box same basis	. lb.	.6314 .62		Ш					
	Sodium phenosulfonete pourt des	barbital	-Sodum).	L		NDING O			6
	tech., bos., cl., tl., work	Dasic Lit	.,,	-	S	orbitan monoa 00.00	tearate, dms., 0 lb. mln.,	cl., t.l.		
	100d grade same beels 100	Olbs.	54.50 57.50	-	S	wones.	ste, c.l., 1.l., 30	[h	. 7£	-
	Sams basis 100	ech.,		_		mmlo	b. works.	lh.	en en	-
	food grade, same basis. 10 tribasic, tech., same besis. 10	n Drae	55.75 59.75		~	ame.,	0.l., 1.0.b. a	hipoine	3	
	food grade, same basis. 100 chlorinated, same basis. 100	l the	52.25 83.25	52.75		10NKS, 1.0	b. shipping po	oloviIb	30	-
	I LYYST., TOCH., SEMO DEALS, 100	lihs	31.50 30.50	Ξ	- 1	powd., dms., (l. L.L., works C.l., I.I., works .	Ih	AA	.7
	crys1., lood grade, same	1 lba	65.50	_	80	yosan maa (S yosan oli (See	300 Oils, Fats & Vi Oils, Fats & Vi	k Waxe Vexes n	a market re	port.)
	USP, dried, powd., bgs., d works.		.19	.201/2	J 64	youan on ac 95% ad	iculated, soa ld. tanks. New	Psłock York Ih	14	
	b. dms . fire basis . diad	200-	5.50	_	80	yobanoli, acid	i, dbi., disi., dr	na. Ih	AR	.1 .5
	more, f.o.b. for alld	S. or	.54	_		3.C., CITIE		lh	47	.4
	C.I. Works for squared 100	bga.,	58.25	_	Sp	PORT ITHIT HOUSE	s, Imp., bis Ir Wast, native	lh.	2 50	2.7
	Works, frt. equald 100	.cl.,	61.25			MUDWOST. DRIN	/A	lle.	1000	15.0 12.0
	G.L. t.L. works	ms.,	.3880	, -		MICIWESI, SCOI	tch	lh	14 50	15.5 15.2
ı	anhyd tach bas ci	asic,	.000		1 21	JOHN 5 Dread	edible, bla.	- An	20	.3
	works, int. equald 100 bulk, hopper cars, same	lhe	44.75	-	•	WORKS	de, anhyd.,	lb	NA	
	food grade, bgs., cl., I.I., same	lihe 💮	42.50	-	[Bt	annous chiodds	118., WORKS Lanhyd., dms. v	&b. wks.lh	M A	=
	als	عطال	53.00	-	30	Brinous fluodo I.I., work	rate, liq., conc ks. frt. equald	., dma.,	9.50	
- 1	ams., 1,000-lb, lots or m	KYA.			St	ernous oxide.	dms., works dms., works.	- Ih	MA	=
١	works, frt. squald USP, powd., 200-lb. dms., 1,00	O⊪h	3.00	-	51	Banc acid, dou	ble pressed, b d, bulk.	ulk Ih	26	.39
- 1	lots or more, same besis. Sodiumaesquicarbonate, buik, c.l.	11	3.05	-		uude-oressed.	bulk rea. bgs	1h	20	.37
ı	works bgs, c.l., t.l. works 100	libe 1	170.00 166.00	Ξ	1 31	reptomycin su	note. USP. bul	k kilo	47 M	.20
- 1	3.25 ratio, bulk, c.t.	1.22- 1.1.				I.I., Wor	nate, glass groks.	- Ih	971	
١	bgs., c.l., t.l., works 100)lbs.)lbs	15.70 27.75	_		WORKS	ile, 50-15 bgs	100 lba	51 EA	_
	1.90-2.00 railo, bulk, c.i., works 100	t.i., Ilhe	20.30	_		1.1 1.0.2	ner, 66.6% ml o works	lh	99	.2
-	soin 37.6° solid. 3.22.	11bs.	22.15	-	St	yrens-acryloni f.o.b.pk	itrii e resin, nai Eni	i., bulk, ib.	.77	_
١	ralio, bulk, c.i., t.i.,	Irj.	6.30			Clear, same	basis	····· lb	77	.6 .6
- ["Ratio" Indicates percentage by percentage by weight of for	/ weigh	I ol SiO	divided by	y St Su	VIOLECTIONS, d	lms. uril., cryst., di	III-	9.35	-
- [Sodium silicofluoride, bgs., c.t., works, frt. squaid 100	11	47.00			ICT. AUG.	de, dms., c.l., t	ın.	200	2.t
-1	Sodium starnate, dms. wks. frt. ald. Sodium sulfanitate, dms, works.	Fih	17.95 N.A.	f9.75 -	•	work	white, bgs., c.i	Ib.	. 1.71	-
1	Socium suriste, NF XII. powd., dr	ns	.22	-		refy. E	e, Isobutyrate	100 lbs.	33.10	-
1	2,000-lb. fots tech., detergeni, reyon-grade,	C.I.,	.231/2		"	ams., W.	., dlvd	lb.	1.16	_
1	Sodiumsulfate, West, bulk, c.l., wo	rka,	60.00	96.00	1.3	100%, ams., LI	l., divd	Ib.	1.10 1.16	Ξ
	bulk, cl.l, East, same basis	ton 1	60.00 13.00	101.00 114.00	1 30	grede, 1	ice1ete, dene 100-lb. dma.,	l.o.b.		
- 1	Sodkum sulfate, photo grade, 100 bgs., c.l., works.	ton .	47.00	53.00	Sul	18benzamka.	dma. 500 kilo:	t kilo	12.50 39.50	13.50 —
ı	dm s., c.l., works, i	2%, rt.				KUOS	sodium, dma	kilo.	25.00	_
1	Ilq., 44-46%, tanks, works.	ion 50 irt.	00.00	-		kios	UBP, dms.	, 500 kilo.	20.00	23.50
1	equald Sodiumaulfide, flake, dms., c.l., wor	los 6/	00.00	-		radiazine, USI kilos	P. powd. dms	. 500	53.00	_
1	bos., seme basis	ton 47	70.00 10.00			kilos	um, UBP, dms	., 500	40.70	
1	Sodium suifide, fused, dme., o works, E., frt. equald,	.l.,	40.00			dms., 500	JSP, microcry	stale,	33.50	
1	Sodium sulfite, anhyd., tech. 95-10 bgs, 1.o.b. works 1001	0%	23.76		Sulf	SP. DOWG., do	ns., 500 kilos odium, USP,	klin	32.00	=
	Sodium sulfooyanida CP (see Sodiu Sodium istraborata (see Borax).	m (hloc	yanale).	•		QM8 50 I	kilos. powder, dms.	kao.	13.00	-
1	Sodium tetrasulfide. Ilq. 34%, dm o.l., works., frt. squald !	S.,	0.00		l	KNOS	yst., bgs., a.l	.kio.	8.00	10.00
1	Socium thiocymnate, purif., cryst., 26	iO-	0.00	-	1	WORKS		Obs.	38.00	41.00
1	lb. dins., 5 dins. or mo	b . ;	3.26			WORKS,		lb.	.36	-
1.	tech., anhyd. dms., 2,000 lbs. more, works.	b.	.97			TTT. GOLUGIO	reg. 1,000-lb.	lh	2.00	-
1	iodium thiosulfate, tech., photo- grad anhyd., 100-lb. bga., c.l., t.	L,				WORKS	h., bgs., t.l., veterinary, g	h.	.871/2	-
L	works, frt. equald 100 fb cryst. pentahydrate, c.l., 11., san	10	5.50	-	,	GTR8		h.	8.00	_
8	baels	b.	3.00 -14%	-		Vessets, Gu	moiten, dom., ifports	a-ton	150.00	_
	bgs., c.l., frt. alid. E	b.	.28	- 1	rec	overed, divd	Houston Ion	3-ton	125.50 125.50	_
18	odkm tripolyphosphata, tach., bgs., o. tl., works. frt. equald 100 b	L, L 39	.75	~	ex.	terminal, Rotte b. tenks, Albei	rdam lon rta, Canada, lo	g ton PUS	135.00	-
	bulk hopper cars, same basis. 100 be food grade, bgs., o.i., t.L., same be		.50	-	der	K. 1904- i Samba i	Fialong	Linn	102.00 157. 5 0	_
8	als 100 be oclum tungstata, tech. high moly		.50	-	- Surjui	nour, 50 m	. min. purity, o	ines		
	dme., 10,800 lbs. or more, fit ald	5	.00	5,50	lum	D. Same basis	100	lbs.	13.60 . 13.60	_
	more, same bestp , fc	. 8.	.00		SUITUR	50-lb. bag	6 min. purity, 8, c.i., mines	ba-		
	ockum emmonium phosphata, puril. cryst., dma., works, ib	١.	.52	-	flou	sia	100	lbs.	17.50	~
	odium-formaldehyde suffoxylate dns., t.L, f.o.b. worksb	٠.	91		Suther	refet makik	med NC 00	106.	20.00	•
	odium-zirconyl autlate, dms., 1,000 b. lota or more, works lo		28			min. purity	, 60-lb, bgs., 100 s, 99.5% min.	o.l.	26.00	_ ".
80	tech., dms., any quantity, works its livent naphtha, petroleum, straight aromatic, b.r. 320-360°F,		16		Sulfur	rubbarmaker inty, comi	s, 99.5% min reg., 50-lb. b	pu-		
	56°F m.a.p., tanks:					98% min ne	esis 100	106. 326	14.00	-
	New Jersey gal. Houston gal.	. 12	52 41	: 4		rneen, seme dichloride.' dra	basis 100	Roe. ·	15.60	-
So	ilinois	. 1.	54	360°F		tanica, same b	anie	.10.	.21	
:	410°F, 60°F m.s.p., tenks: New Jersey	- 1.8	30 ·	1.35	anini	cloxide, iq., b	uk, t.a., 1.t., 1.	o.b.	.1734	
ं	Housion	. 14	30	1,35		fri anuali	dma., o.L. wo	ion 2 Nos	30.00	· 5.
80	rbio acid, t.I. drns., divd Ib.	22	• • • •	3.10 I		s, serne Dasis	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ib.	.22% 16%	
	October 27, 1986	1 %	C	HEMICA	LM	ARKETIN	G REPOR	ren		49
	To be the same	1.0	-	Seal		the state of	4		Action to	1

Sulfuric acid, wirgin 100% lanks, works East Coastton	71.76	95.90
Gulf Coast ton	75.00	88.40
Midwest ton	80.25	-
Southeast ton	68.15	-
West Coast	85.00	-
NOTE: For private on 50 and 68 8a.	multiply by	.7787 a
9318, respectively. For orice of	20% TUMIN	g oveum, i
is, add \$3-\$4 to above prices an	dmultiply by	ý 1 .0 45.
Sulfuric acid, amelter, 100% tanks, wor	ks,	
Gut Coast ton	48.00	52.00
New Mexicoton	20.00	25.00
Southeast ton	63.15	
93%, tanks, divd., Northwest ton	60.00	65.00
Sunflowerseed oil, crude, f.o.b. Min-		
neapolis	.1434	.161
Superphosphate, triple, 45% or more,		
a.p.a., run-ol-pile, bulk, c.i.,		
Fig unit-ton	2.75	3.05
buck, gran., c.l., Fia ton	150.00	165.00

T		,
Talc. dom., grd. New York bgs., c.l., works	84.00	-
99.5%, 325 mesh, bgs., c.l., workston	84.00	90.00
Talc, dom., 89.5%, 400 mesh, mi- cronized, bgs., c.t., works ton	187.00	238.00
825 mash, micronized, bgs.,	200.00	
c.i.,works	90.00	
ord., Vermoni, cli-color grd., bgs., cl., workston	136.00	
Imp., Canadian, grd., bgs., c.l.,	70.00	84.00
Tali oli, crude, Southeest, lanks,		
viorks, frt. equeld ton Tall oil, reid., acid, same basis ib.	90.00 .31	100.00
dist, tanks, same basis	.18	.23
works, frt. equald , lb. loss than 2% roain acid , rb,	.2011 .22	.23½ .27
7allow (see Oils, Fals & Waxes markst n Tallow, Istly acids, tech., non-ret.	eport.)	
dms., c.l., divd, b.	.37	.40
tanks, divd		
ofvd	.37 .35	.33 .42
Tangerine of, Fla., dms. i.o.b	10.50 52.90	11.00
Italian, dma		
New York, bulk, unlifton Tankage, fert. grade (see Narogenous p	5.50 rocess terri	kege).
Tannic acid, NF, fluffy, bbls., 1,000- ib.	8,09	
tech., powd., dms	4.62	-
Workstosi.	1.40	-
25-28%, t.l., dms., l.o.b. works . gal. 50-53%, t.l., dms., f.o.b. works . gal.	1.69	-
Testaric scid, NF, bge.,	1.20	1.50
rerpmmydrate, Mr. Imp., cryst., powo.,	12.00	-
36 kilo drums, t.o.b. ship. pt., frt. squald	1.35	_
Terpineol	1.10	1.50
prime, drns b.	1.35	2.06
Terphyl propionate, dmsb. Tetrachloroethylene, tech. (see Parchi	proethylene	·).
Tetrachioroethylene, USP, dms., c.l. t.l., works	305	4 -
Tetraethyl orthosilicate, bulk, f.o.b		1.66
works. Tetraelhylene glycol, tanks, frt. alid. ib Tetraelhylene glycol diacrylate, t.l	57	-
drs., 1. o.b. works,	. 1.50	-
Tetraethylenepentamine, tanke, sam bests	. 1.70	1.78
Tetraefhylthiuram disullide, tech flake, dms., i.i., irt. ald R	68	2.07
Tetrahydrofuran dina., c.l., t.l., f.o.t).). 1.02	
tanka, same besis Tetrahydrofurfuryi alcohol tanka, f.o.i	n98	-
Memphis, Tenn	o90	
Tetrahydrophthalio anhydride dma	i.,	
7etrapolesskim phosphate (see Potass	um ahasaha	14 intraha
tetrabasic.t	ogram basel	phosphale
Thelium metal, divd	b. 36.00 to 140.00	
Theobromine, built f.o.b, works	b. 4.00	

Thisming monoring to BP 100-kilo.

Thisming monoring to, USP, 100-kilo.

Thisming monoring to, USP, 100-kilo.

All thisming monoring to the control of the c

l Ti	horium nitrate, puril., dms., 100-b.	0.76		Turmerio, Alleppey over 6% b. Turpentine, Crude suffets tanks, f.o.b.	.70	- .80
14	. Two prince chas 10 kilds wks kilo. 1	2.76 28.00 1.45	-	Southeast works gal.	.70	.00
	Tyme leaves, French, bgs ib. Spunish, bgs	.75 20.00	-			
	NF white cinsk20	22.00	6.15			
ή	nymot NF		8.20	V		
Į	n metal (NY composite)	N.A.	-	Ultramarine blue plymente, 550-2,000		
1"	ehury shipments, 50-ton lots, dry be-	.77	.79	ib. lote, worksib.	1.30 2.20	-
1,	els, frt. alld	.78	-	Umber pigment, bumt, American, in.	.13%	.151/2
Γ	alumy shipments, 50 ton lots,	.81	.84	raw, American, dom., ogs., t.c.i.,	1312	.14%
1.	dry basis, irt. 870	.84 pound more	ı. [—]	Undecylenic actd, drs., worksb.	2.70	-
(1	nrade, dms b.	26.50	-	4994 N. portestharel bulk, divd. Mid-		220.00 215.00
1	tanum tetrachloride, tech., bulk, o.l., f.o.b. works b.	.30 .50	.35	46% N. soricultural, bulk, divd. West ton 2	00.00 10.00 ,22	-
11	200-gal oyinders oil, same basis b. tanium sponge, 99.3%, fiber drums.	-00		Uva-Urai leaves, bls b.	,24	_
1_	less than 5,000 lbs. f.o.b.	4.65 2.45	:	11		
l d.	oblas scid, 2,000 lbs. or more b. a-Tocopherole, 87%, dma klo a-Tocopheryf scetate, 81% conc.	60.08	-	V		
	dins	57.48	-			
1	a-Tocopharol dinakiio.	78.44 27.40	:	Valerien root, Beiglan, bgs b.	.65	.85
ď	-a-Tocopheryl acetata, USP 60-kilo dm, 1000 kilo min kilo.		18.50	Indian bgs. b. Venadium exylrichlorids, 3,000 lb.	.45	-
1	50% dry powd., 50-kgo dm kilo plu belsam, ons	17.00 7.80	8.68	cyle., worksb. Vanadum pentoxide, tach., gran., per b.	5.40	-
} †	otuene, petroleum, ind. or nitration, tinks Atlanta, Ga., divdgal	./u	-	of V ₂ O ₆ , 650-lb. dms., works lb. fused or flake, per lb. V ₂ O ₆ , 550-	4.10	4.84
	Bayonne, N.J., divdgal. Beytown, 7ex., I.o.bgal.	.70 .70	:	(b. dme., worksb. Vandyke brown, bage, t.l., frt. equald. b.	3.35 .27%	3.85
	Chicago, III, divd gal. Clairton, Pa., I.o.b gal.	.70 .70	-	Vanilla beane, Madagascar b. Jeva, tins b.	37.00 27.00 8.25	30.00
	Oper Park, 7ex., 1.o.b gel. Ft. Wayne, Ind., divd gal.	.70 .70 .88	.87	Vanilin, USP, dms., f.o.b works b. imp., dms b. Versinol Ag b.	4.75 .64	5.00
l	Guli Cosst, spot, barges	.70 .70	-	Vetvaryi scetaje, dma. kšo extra b.	50.50 6 3.00	
1	New Jersey Metro, divd gal. Philadelphia, Pa., divd , gal. Providence, R.I., divd gal.	.70 .70	-	Vetiver oil, Bourbon, dme ib. Hatten	18.00 28.60	17.00
T	pluena di-leocyanale (mixed isomers). 50%, 2,4- and 20% 2,8- leorners.			Java	31.00	-
1,	jumbo tankcara, dvd !b Toluenesulfonamide, powd., dma.,	1.01	-	dma	8.20 10.40	8.30
Ι.	t.i., works	3.55 3.10	-	Vinyl ecetate monomer, tanks, divd. b. Vinyl chioride monomer, polymer	.38	-
٥	Toluktine, tech., iq., dms. c.llb. bulk, same basislb.	.72 .60	.75 .64	Vinyl ether, USP, aneathesia, 75-cc.	.28	
P	Toluldine, tech, cast solid,dms., d.,worksb.	1.80	1.85	bots., hospitals bots. 2-Vinylpyridine t.L., dma, works kilo. tanks, works	7.81 7.51	- E
١.	Liq. tanks, same basis b. flake, same basis b.	1.70 1.85		Vindickiene, bulk, f.a.b	.57	.73%
1	c.i. f.o.b. works	1.03	-	Vitemin A, synthetic, dry, pharm., 500,000 A units per gm., 50-kito. lets. kito Vitemin A, ilg. in ofi, pharm., 1,000,000 A	33.00	-
۱۱	bulk same basis	.85	-	units per gram, 10 kllo lots. , kllo Vitamin A, feed grade, 850,000 units	41.00	-
1	Cincinneti, Ohio ib. onke beens. Angosturs, prime, 1,000-lb. jole	8,50		per grn	18.70	23.85
17	axephene, dms., c.l., fl., works lb. regacanth gum, No. 1, ribbone, ons. ib.	38.00	40.00	Vitamin 8 ₁₂ , cryst., non-starile, USP	id Yessi).
· l	lieked powder	12.50 .75	15.00	(cyanocobelemin), viets, 60- gram, kde,	8.00	9.75
1	ribulyl citrate, f.l., drums, f.o.b., works	1.70		(cyanocobalemin USP) with dical-	10.78	12.75
	ributyi phosphate, tanka, works ib. ributyiemine, dme., c.l., divd ib.	1.85 1.39	1.77	ctum phosphate, 25-kilo dine, kilo. Vitamin 8 ₁₂ , 0.1% trituration of cryst. 8 ₁₂ (cyanocobalamin USP) with		
1	troka, same basis	1.33	•	marinitol, 25-kilo, drns, kilo. Vitamin 8 ₁₂ , cobalamin concentrate NF	15.60	-
I.	USP, 100-tb, dms., frt. equald b.	.94 .99¼	=	with menulici. 1,000 mcg, per gram activity Vitamin B ₁₂ , 1% Vitamin B ₁₃ , USP, ab-	18.45	-
	1,2,4-Trichlorobenzane, pure, tanks, divd	.81%	-	acitied on reain, 5-kiki dins., 500-	45.05	
- 1	1,1,1-Frichloroethane, tanks, con- sumers, civd	AOVs		gram lots, frt.sld. per gram activity Vitamin B ₁₂ , 1% cobalamin concentrate, NF, absorbed on resin, 5-kilo	15.65	-
	works	.42	:	des., frt. ald. per gram activity. , Vitamin 8 11, 1% cyanocobelamin in	15.40	-
- 1	Trichlorolsocyanuric acid, dmslb. Trichlorophenoxyacetto acid (see 2,4,5	1.25	-	geletin, 2.5-kilo dms., fri. aldper grem activity	16.40) -
1	Tricholise citrate, 65%, soln., rion-ret. dria., 1,500-lb. lote, divcl., lb.	1.35		Vitamin C (see Ascerbic acid). Vitamin C (see Cholecaldierol)		
1	Tricrasyl phosphete, tanks, f.o.b.	1.60	1.76	Vitamin D ₂ (see Codiver and Fishiver of Vitamin E (see a-Tocopherol and Wheat	15). Lgenn of	Ŋ.
	Trickbonologine 95% trace died 5 h	.57	•	Vitamin H (see Bictin). Violat mathyl toner (see Mathyl violat to	ner)	
1	Triethonolamine, 85%, tanks, divd. E. B. 99%, tanks, same basis	.45 .45	.48 .48	11/		
ļ	Triethandamine lauryi sulfats, tenks, f.o.b. works	.27¼ 1.33	.271/2	W		
1	tanks, same basis	1.20				
1	Triethyl phosphate, tanks, divd b.	1.82 1.15	:			سيسيد
1	Triethylene glycol, tanks, f.o.b. Gulf lb. Triethylene glycol dipelargonate, tanks	.47	-	Warfarin 0.5%, dins., ton lots, frt. alid. New York or Chicago	.7	
	40-80% tanks, 100% basie, frt.	291/	ż -			17.50
1	equald	1.43	1.45	cold-processed	7.8	192 11.2
ic).	Tri-leo-tolyi trimelitate, f.o.b. works ib Tri-leobutytene, tanks, divd b Tri-leopropanolamine, dms., o.l., fri	45	.68	Witch good Calcul Carponate). Witch azel bark, bis	latak	LE .
	and E	.671	t -	400 mash, bos., c.l. workston	134.0	5 -
	equald., 100%		4 –	325 mesh, bgs., c.f. works tor	117.0	00 –
	40% soin., tanks, frt. squaid., 1009)63°	h -	violationite, f.l., f.o.b., producing	200	
	Trimethylcinconene has a Lt Letter is	58	.57	400 mesh to	140.0	141.0
	dms. f.o.b. works	l. h 180	_	1250 mesh. to Wool greese, USP (see Lanolin). Wormseed oil (see Chenepodium oil, it	1 500.0)0 -
•	i Triphenvi phosphate, dme. t.l. to	b. 1. Q Q	-	110/m/1000 Oil, 018	NF) . 91.0	00 38.0
5	Tripropylene glycol Lanks, frt. el	b. 1.64 d.		V		
5	U. works	d, h en				
	i-Tryptophen, direc, 25-kijo inte	hosphale, b	(plaste)	Λ		
2	Turigatic acid \$255%, dma., 1.75	b31	.33			
	6,000 lbs., works	h 12 91		Xanthan gum, food 800-lb, drns., f.o.t works		85 : 8.2
N TOTAL	OPTED	• .		ind., grade, same basis	s. 4,	.54

rmeric, Alleppey over 6% b. upentine, crude suffets tanks, f.o.b. Southeast works gal.	.70 .70	- .80	Xylene, petroleum, Ind. ornitration, tanks Affience, La., 1.o.b	.80 .80
			Bayorne, N.J. f.o.b. gel 8eytown, Tax., f.o.b. gel Chicago, Is., divd. gel, Clarton, Pe gel, FI. Wayne, Ind., divd. gel, Guil Ceasi, spoi, barges gel, Houston, Tox., divd. gel, New Jersey Metro, divd. cal	\$0000000000000000000000000000000000000
tramarine bisse pigmente, 550-2,000 lblots, works	1.30 2.20 .t3%	- - .15\\	Xylene, petroleum, ind. or nitration, lanks Philadelphia, Pa., divd gal. Providence, R.I., divd gal. South Bend, Ind., divd gal. m-Xylene, high purily, tanks, f.o.b.	1.36 1.42 1.37
raw, American, dom., bgs., l.c.l., earne basis	.1372 2.70 200.00	.14% - 220.00	Toxas City, Tex	36 125 196
18% N. agricustural, bulk, divd. Mid- west ton 16% N. agricustural, bulk, divd. West ton va-Ural leaves, bls b	200.00 210.00 ,22	215.00 	2,4-Xylidino, lech., liq., c.l., t.l. f.o.b. works b. Xylidines, mixed, o-m-p., dms., c.l., t.l., l.o.b. works b.	1.80 1.00
			<u>Y</u>	
aletien root, Beiglan, bgsb. Indian. bgsb. anadium oxytrichloride, 3,000 ltp.	.65 .45 5.40	.85	Yare yars, 25-lb. cns	2.81 1.10 2.40
cyls., worksb. /anedum pentoxide, tsch., gran., per b. of V ₂ O ₄ , 650-b. dma., works b. fused or flaks, per b. V ₂ O ₄ , 580-	4.10	4.84	extre. bots. lb. Yiang-yiang oil, extre grade. lb. grade 1 lb. grade 2 lb.	26.50 23.93 19.09 15.90
ib. dme., works	3.35 .27 W 37.00 27.00 8.25	3.85	grade 3lb.	13.04
/ansan, OSP, Gree, Rott Worke	4.75 .64	5.00	7	

			I	
en root, Beiglan, bgs b.	.65	.85	Yare yare, 25-lb. cns	231
an. bos	.45	-	Yeast, pure brewer, a debittered, NF, Sac- charomyces, t.l., I.o.b. works . lb.	1.10
dum exytrichlorids, 3,000 lb.	5.40	-	Yerba, sante leoves, bis	240
tum pentoxide, tech., gran., per b.				26.50 23.93
of V ₂ O ₄ , 650-fb. drhs., Works ID.	4.10	4.84		19.00
ised or flake, per b. V ₁ O ₆ , 550- ib. dme., worksb.	3.35	3.85	grade2b.	15.90
ke brown, bage, t.l., frt. equaid. b. a beane, Madagascar b.	.27W	-	grade 3lb.	13.04
a beane, Madagascar b.	37.00 27.00	30.00		
n, USP, drys., Lo.b works b.	8.25	-		
., dms b.	4.75	5.00	1	
nol Agb. aryl scetate, dmaklio	.64 50.50	Ξ		
ra	63.00			
er of, Bourban, dme	18.00 28.60	17.00		
ittan	31.00	-	Zein, bgs., 2,000-lb. lotslb.	7.50
ria blue loners, molybdeted, PMA			Zinc acetals, NF, dms	1.00
dmab.	8.20 10.40	8.30	zinc barate, tech., 43% ZnO, 37%	1.50
ngeleted, PTA, dma., , . b. I scetata monomer, tanka, divd. b.	.38	-	6,O, 50-lb. bgs., 20,000-lb.t.l.,	
chloride monomer, polymer			for works	.55
orade, tanks, l.o.b. worksb.	.28	-	cryst., 37% ZnO, 49% 8,0, 250-b. dms. 20,000 lbs. 1.1 f.o.b. wks. lb.	26
	1.58	-	Zinc chioride, USP, gran., dms kijo	9.79
wpyridine t.L., dme, worksklo.	7.81	-	Zinc chloride Jech., son, 50%,	
wbyridine LL, dne, warks klo. nks, works	7.51 .57	.731/2	tanks, I.o.b. Cleveland, Ohio1001bs.	20.20
nin A, synthetic, dry, pharm., 500,000			Concord, N.C 100 lbs.	20.20
nin A, synthetic, dry, pharm., 500,000 A unita per gm., 50-kilo. lots. kilo	33.00	-	Concerd, N.C. 100 lbs. Froeport, Tex. 100 lbs.	2020
min A, iliq. in ali, pharm., 1,000,000 A unita per gram, 10 kilio lota. , kilo	41.00	_	65 degree, same basis Cleveland.	2020
min A, feed grade, 850,000 units		***	Ohio 100 los.	27.90
per grn	18.70	23.85	Onio 100 lbs.	27.90 27.90
Vitamin By (see Fiboflavin s	nd Yeast).		Old Bridgo, N.J. 100 be. 70 degree, same basis Cieveland,	
min 8,21 cryst., non-starile, USP			Onio 100 lbs. Concord, NC 100 lbs. Cod Bridge, NJ 100 lbs. 72 degree, same basis Claveland,	28.70
(cyanocobalamin), viels, 60-	8.00	9.75	Concord, NC 100 lbs.	29.70
min B ₁₂₋ 1% influention of cryst. 8 ₁₂	0.00	4	72 degree same basis Cleveland,	
(cyanocobalanin USP) with deal- clum phosphata, 25-kilo dine, kilo.	10.75	1076		33.20
min 8:2: 0.1% tituration of cryst.	10.78	12.75	Concord, NC 100 lbs. Old Bridge, NJ 100 lbs.	33 2
a _{rs} (oyanocobalamin USP) with			Zinc chromate, bge., divd	1.12
marritol, 25-kilo, dms kilo.	15.60	-	Zinc cuetida dms., C.L	1.5
with mervilid, 1,000 mcg, per			Zinc dusi pigment type 1 8 2, dms., c.l., ib.	.54
grem, gma, per green activity	18.45	-	Zing athylanodiaming terrecent burn.	
min B ₁₂ , 1% Vitamin B ₁₃ , USP, ab- sorbed on resin, 5-kilo dms., 500-			H.4% Zn., ammonia san avia	.5
gram lots, frt.ald. per gram activity	15.65	-	8% Zn., ammonie esil soin., t.o., t. t.,	
amin B ₁₂₁ 1% cobalamin concentrate,			Lob works	
NF, ebauroed on reein, 5-kilo dos., frt. ald. per gram activity.	15.40		Zino fluoboraio, Ild. CODC., QUIS., Liter	.5
amin 8 131 1% cyanocobelamin in			works, irt. equaldb. Zinc motal, high grade, dvdb.	
geletin, 2.5-kilo dms., frj.	16.40	_	The septiment was the City	
aildper gram activity amin C (ese Ascorbic acid).	10.40	-	Zing nitreto, tech., liake 300-b. dms	3
WHILL O (998 CHOICEOCHALOI)			And takin takin takin takin hite paga ani	
ismin D ₂ (866 Codiver and Fishiver o ismin E (866 a-Tocopherol and Whea	kisj. Loann of)		fri did	
isunin H (see Biotin).		•	Zing oxide, USP 50-lb. bxs., o.l., frt.	
olat methyl toner (see Mathyl violet to	oner)		7 Indevidentement Americal Develor	- 1
			AND THE PARTY OF T	
			Zinc axide pigment, French process regular, bgs., o.l., frt. aldib.	
19.5			Zino phonoisulfonate, puril., gran.	1,1
			Zino phenoleutionate, puril., gran., 250-b, dras., i.i., frt. etd ib. Zino pyridinethiono, 48% dispersion.	
			CELLO L'O'D' ALONDO	14.0
- -			Industrial grade	- 411

1	Zing nitreto, toch., liake 300-b. dms D.	.29	
	Zina makia abota conductivit, 1904 944	47%	-
	101 001	,A1 70	
	7 nn cylda 1199 hll-bl. Dan. U.b. Ith	4611	1
	200	****	
	The out do plantant Amarican Divossi	40	
	CONTRACTOR CO. L. C. C. C. C.	•	
	The cyles daming Frince become	.A1	•
	PARTITION DODS ST.L. II C. BURNING		
		1.67	'
			•
	Zinc pyridinethiono, 48% dispersion, dms. (.o.b. works	8.50	•
		14.60	
	Industrial grade		
		.45	
-		.17	
17.60		92	•
.,,,,		***	
	Zino eulfete, gran., monohyorate, n-		
11.24	duet, grade 36% Zn., bgs., 0.5.	26.80	. 2
	duel grade 36% Zn., bos., o.i., works	2000	
		22.00	
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141.00	200-b. ome., in- and works. 100	16500	
141.00	Ziroon miled bgs., 200 and 326 mesh.	225.00	4
_	Zirochum acetate soin, 25% Z/O _s dris.) c.J., 30,000 ibs. min., works. ib. 23% Z/O _s same basis.		
	of 30 000 the min. World.	78	1
38.00	c.l., 30,000 bs. min., wons.	4.	Į.
-	The second secon	7.51	
	grade, dms., works		J.
	Zirconium oxide, powd., com, dine.	12	샋
	2,000 lbs. min.	178	Ü
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	basis.	1	М
	insulating unstabilized, 320	: 78 0	a.

CENTRIFUGES

CENTRIFUGES

p5400 Sharplee, 318 S/S RECDNDITIONED
p3400 Sharplee, 316 S/S. (5)
p3000 Sharplee, 316 S/S. (2)
p660 Sharplee, 316 S/S (2)
40"x 80" Bird, 304 S/S, reconditioned by mfr.
8" 8ird 066, 316 S/S
NX207 Alfe-Level, 316 S/S Flex Drive
BRPX-213 Alfe-Level, 318 S/S construction
SAOWH-3036 Waat Falle, aent., S/S
SA-1-02-175 Weat Felle, Pilot Plant 3 way S/S
46" Sharples "Tornadomatic" 316 S/S (2)
46" Tolhurst, "Setch Maeter", S/S (2)
48" Sharples "Sludge-Pek" Model SP-6500, 316 S/S
48" Weatern States, "Sludge-A-Tron", 316 S/S, (3)
32" 8aker-Perkina, puaher design, 316 S/S 26" AT&M suspended centrifuge, 304 S/S 5 H.P. 12" Krauss-Me ffel, pusher designed, 316 S/S 6" Seker Parkins Pusher Design, 318 S/S 88600 Alia-Lavel pusher design, 316 S/S

SZEGVARI ATTRITOR 60 gel. Szegveri, jacketed, stainless eteel

PRESSURE FILTERS

H

460 sq. ft. Ourco-Enzinger, Model 60DHC469, 316SS 370 sq. tt. Nisgera Model 370-346, 304SS 322.8 sq. ii. Funda Modsl R-30, 316 S/S, jktd., 40 HP 76 eq. ft. Niegare, model 33-12-5, S/S |ktd. (2) 314 sq. ii. Niegare, Model 42-310-22, 304 S/S 259 sq. ft. Pronto, Model 3259, S/S (2) 160 sq. ft. Sparkler, Model 33830, S/S (2)

VACUUM FILTERS

6'x16' Amatek, 316 ELC S/S LIKE NEW CONDITION 6'x6' Elmco, pre coat "Elmcomet" construction (3) 6'x8' Amstek, potypropytene 5'x7' Paxman, 316 S/S, precoet 18"x12" Elmco, 316 S/S, precost

REACTORS-TANKS

S/S, G/L Reectore, up to 5000 gsl. capecity, Tanks up to 15,000 gsl. capecity (100's in stock) (S/S, G/L, C/S, FRP)

HORIZONTAL BELT FILTERS

6'x16' Elmco, rubber balt, vacuum (2) 4x12 Elmco, rubber belt, vacuum (2) 2'x10' Straightline, rubber belt, complete 2'x7' Straightline, rubber belt, complete 1'x3' Elmco, rubbar belt, complete

BELT FLAKERS

30"x20' 8andvik, S/S beit fisker, complets 20"x32 Sandvik, S/S, complets system

FITZ CHILSONATOR Size 16 x 30 Fitzpeirick Chlisonator System, all S/S construction, with size 30 granulator, with drivae

BALL/PEBBLE MILLS

5'x6' Patterson Jacketed Stael Ball Mill, 30 H.P. 3'x4' Patterson Pabble Mill, ericite linad

30 RS Premier, Suesmeyer Sand Mill, completa 12-30 Morehouse - Cowlee Send Mill, 50 H.P. 10-25 Morehouse - Cowlee Sand Mills, 25 H.P. (2) 16-P Chicago Soller "Red Head" 30 H.P. Lab Chicago Soller "Red Head," 1 H.P. SAND MILLS

LAB 3 ROLL MILLS

1/2" J.H. Day, high speed, complete

1"x10" Ross, high speed, complete

1"x8" Kent, high speed, complete

ALL NICKLE CONSTRUCTION

500 aq. ft. U.S. Autojet Preesure Filter 107 aq. ft. U.S. Autojet Preesure Filter 15/3' Ametak Rotery Vecuum Filter

JUST PURCHASED

7500 gel. Terre Heute Fermenters, 304 S/S, 50 pel (5) 7500 gal. Tarre Heute Fermenters, 304 S/S, 50 pel (14000 gal. horizontal batch still, S/S 2500 gal. Hicks tanks, 316L S/S, 50 psl or F/V 2000 gal. Nooter reactors, 316L S/S, 60/90 psl (S) 2000 gal. Plaudiar reactor, 316L S/S, 60/90 psl 2000 gal. Muslier reactor, 316L S/S, 60/90 psl 2000 gal. Muslier reactor, 316L S/S, 60/90 psl 2000 gal. horizontal batch still, S/S (2) 1250 gal. S/S Mix Tanks, 10 HP Verl- Drive (2) Misc. G/L tenks and kettles, to 3000 gal. (8) ST 100 Aeromatic Fluid Sed Dryer, ell S/S

ENVIRORENTEMENTALISMEN

HIG GUICANCAPTER BURGAND WAS THE BURGAN AND CHARLOST PROPERTIES OF THE CHAR स्त्रा वर्षक्रमानिक्षण्टा क्षाणास्य स्त्रा (दे, १८००) हेवस्य स्त्रा स्त्रा (६०) हेवस्य स्त्रा स्त्रा होता स्त् स्त्राप्त स्त्रा प्रत्याच्या स्त्रा स्त्र स्त्राप्त स्त्राप्त स्त्रा स्त्र स्त्रा स्त्रा िन्द्रं, स्वतान्त्राचाराक्त्रं प्रातानास्त्रः । राष्ट्रानास्त्राक्षातानास्त्राचारानस्त्राक्षात्राक्षात्राक्षात्रात्रा

RESIN MFG. EQUIPMENT-**OHIO LOCATION**

5000 gel. Struthere-Wella Raactor System, 347 S/S, 50 PSI or full vacuum internal, 75 PSI jacketed, 700°F, turbina egitator, with condensor, receiver, piping,

controls
15,000 gal. Steinlass Steel Tenk, verticel, with Internal colla, top entering 40 H.P. turbine egitator
200 gal. Baker-Parkins Mixers, siza 17GiM, type 304 stainless ateal construction, fully jecketed, duplex disparsion bledas, acrew tilt, 40 H.P. (5)
35 gal. Patterson "Kneadermester" Mixers, 304 stainless ateal, algme blades, jacketed, 40 H.P. (5)
100 H.P. Sprout-Waldron Hammermilla, Model CG-26 (5)
26" dia. Reitz Tharmascrewe, 304 S/S, jacketed trough 28' long. 15 H.P. varidrive (2)

28' long, 15 H.P. varidrive (2) 40"x84" Pettereon Screene, 1 deck, S/S (9) IMMEDIATE AVAILABILITY-CALL FOR DETAIL!

NEW LIQUIDATION

PVC Suspension Plant Ohio Location 11-5,000 gal. Pfeudler Reactors, C/S construction, rated 220 PSI Internel, 60 PSI jacket, 50/25 H.P. Philadelphia **Gear Drive**

Complete Nara Vertical Fluid Bed Oryer System, ell S/S, 5'7" x 22'1", 2 stage, rated up to 10,000 #/hr., with heaters, blowers, cyclonee Comptete Proctor Vartical Flash Dryer System, eli S/S, 3'1"

x 117'2", with heeter, blower cyclones 20,000 gal, Steinleae Steel Mix Tanks, 13'6"x19', 20 H.P. (2) 16,000 gel. Stainless Steel Mix Tank, 12'x16'4", 10 H.P. (1) 15,000 gel. Stainless Steel Mix Tank, 9'6"x27'8" 40 H.P. (1) 60 cu. ft. J.H. Day Sanitery S/S (2) 8,500 gel. Steinless Steel Tank, 9'8"x15'2'' (1) 40 cu. ft. J.H. Day Sanitery S/S 8,500 gal. Stainless Steel Tank, 9'8"x15'2" (1) 8,000 gal. Glascote Vacuum Receiver, Glass-Lined (1

6,500 gal. Glescote Vecuum Receiver, Gless-Lined (1) 2,250 gel. Stainless Steel Ketiles, 6'8"x8', jacketed, 10 2,250 ge). Stainless Stael Kettles, 6'8"x 8',)acksted, 3 H.P.

2,000 gel. Stainless Steel Mix Tenks, 6'x8'4", 2 H.P. (3) 1,000 gal. Stainless Steel Kettles, 5'4"x6',)ackated, 2 H.P. 1,000 gal. Stainless Steel Jacketed Tanks, 5'4"x8' (2) 4-A.O. Smith Siloe, Glass-Lined, 14'x40', bolted

1-8utiar, Epoxy-Lined, 9'x32' welded 220 CFM Sullaire Compressor, 125 PSI, rotary screw dealen 117 sq. ft. Milkro Pulsair Collector, Model 25S-8-30, S/6 Oerrick Screen, single deck, 3'x5'
Misc. tanke, feeders, blowers, cyclones, pumps

REACTORS

CTORS

5000 gel. Struthers-Welle, 347 S/S, 50#/75#

3300 gel. Acme, 304 SS, 74#/78# (2)

2750 gel. Acme, 304 S/S, 74#/36# (2)

2000 Colonial, 316 S/S, 100#/100#, w/coll

2500 gel. Cryocham, 316 S/S, 75#/75#, with coll

1600 gel. Perry Products, 316 S/S, 75#/150#

750 gel. Pfeudler, Glase-Lined, 100#/90#

200 gel. Pfeudler, 316 S/6, 55#/60# UNUSED

50 gel. Pfaudler, Glase-Lined, 25#/90# complete system, with receiver & condenser tern, with receiver & condenser 30 gsl. Pfaudier, 316 8/9, 80#/90# UNUSED 30 gsl. Pfaudier, Glees-Lined, 25#/90# 10 gsl. Pfaudier, Gleas-Lined, 150#/85# 5 gsl. Pfaudier, 316 S/S, 50#/80#

S/S PULVERIZERS

60 ACM Mikro Mill, 75 H.P. PC-38 Strong-Scott Pulvecon, 150 H.P. FASO-20 Fitzpstrick "Fitzmill", 75 H.P. (1) D-6 Fitzpetrick "Fitzmill", 7½ H.P. (2) Menesty "Rotogran" Oscillating Granulator

SPECIAL OFFERING

33' dis. Niro Spray Dryars, 316 S/S, UNUSED (2) complete spray drying facility, nevar installed, including (2) 33' dia. chamber, Model F-350 centrifugal atomizers. All aquipment new 1978, es ehippad from Niro aweiting instelletion.

10' dia Niro Fluid Bad Dryar, 304 S/S, UNUSED, complete system with drying chambar, heating-cooling systems, feed tanks, cyclone collactore, all piping.

VACUUM DRYERS

375 cu. ft. Stahning, Double Cona, S/S (9)
175 cu. ft. Venuleth, Double Cona, S/S (3)
60 cu. ft. DeDeltrich, Double Cona gleas linad
50 cu. ft.F.J. Stokes Double Cona, 304 S/S
40 cu. ft.F.J. Stokes, Rotary, Vacuum, 30"xS", S/S
21 cu. ft. Salfour, Doubla Cone, gles lined
20"x10" Zimmar dble. acrew Holofiltee, S/S jktd.,vac. (3)

MIXERS

50 gal. B-P, C/S, Sig me jacketed vac., 30 H.P.
34 gel. J.H.Day "Titan," Sigma jacketed, 3 H.P.
70 cu. ft. fJ.H.Day, Nauta, S/S, jecketed, UNUSED
200 gsl. S-P, C/S, sigme, jackated, vac., 75 H.P. (3)
75 liter Pepermeir Mixar, S/S, jackated, 30 H.P. veridriva
8 cu. ft. Kelley Duplax, paddia, S/S, NEW
3.5 cu. ft. J.H. Day, Nauta, S/S

DISPERSERS

50 H.P. Cowlas, vari speed. Like New

LAB 2 ROLL MILLS

6"x16" Reliable Leb Mill, 15 H.P., Like Naw 8"x16" Ferrel Leb Mill, electricelly heated, variable epeed, variable friction 6"x13" Farrell Lab Mill, 10 HP drive 3"x7" Farrell Lab Mill, oil heated, verlable epeed

LITTLEFORD MIXERS

FKM 800 D, 13 cu. ft. eteinless steel, w choppera (2) KM 300 D, 8 cu. ft. atalniass steel FM 50, 1 cu. ft. atelniesa steel, jktd., vac., chopper, 5 H.P., vari drive, All XP. New Condition. FKM 8000 D. 189 cu. ft., carbon steel, 4choppars FKM 8000 D. 169 cu. ft., carbon staal KM 4200 D, S6 cu. ft., jecketed, steinless staal FKM 3000 D, 65 cu. ft., jeckated, steinless staal KM 2000 D, 43 cu. ft., jecksted, steinless eteel

S/S RIBBON BLENDERS

ROSS PLANETARY MIXERS

40 gel. Rose, HDM-40, S/S, jacketed, vecuum, 10 H.P. varidrive (2) 25 gel. Rose, HDM-25, S/S, 15 H.P. varidriva 2 gel. Rosa, 130-ELS, S/S, jeckated, vacuum, ¾ H.P.

ARTISAN EVAPORATORS

50 eq. ft. Artiean "Roto-therm" Evaporators, ell S/S construction, F/V internal, 150 PSt)ackat (2) 1 eq. ft. Artiean "Rototherm" Leb Syetem, ell S/S

COMPACTING PRESSES

6½ ton Manasty, Model BB3A, 27 etation 6½ ton Meneety, Model BB3A, 33 atation 4 ton Meneety, Model F~3, single punch

REFRIGERATION

200 ton Lewis Package Chiller, complete 30 ton Application Engineers, Package Chiller 15 ton Application Engineers, Package Chiller 10 ton Application Engineers, Package Chiller 7 ton Mayar Packaga Chiller 5 ton Peuchen Packaga Chiller, (2)

SCREENS

30" Sweco, S/S, 2 deck 16" Kason, S/S, 1 deck, unused (3) 36"x95" Rax-Carrier, 1 deck, S/S (4) 20"x46" Rotex, 1 deck, S/S

HEAT EXCHANGERS

Sheti and tube heet exchangers, stainless steal, up to 2000 sq. ft. surface area-dozensi

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October 27, 1986 CHEMICAL MARKETING REPORTER 49

RIGGING/DISMANTLING DEMOLITION/ASBESTOS REMOVAL

WE ARE EXPERTS AT DISMANTLING. REERECTION, RIGGING DEMOLITION AND ASBESTOS REMOVAL WITH TER-RIFIC REFERENCES BOTH NATIONALLY

AND INTERNATIONALLY CALL US TODAY FOR A QUOTATION ON YOUR CURRENT NEEDS OR ADD US TO YOUR BIDDERS LIST FOR ANY FU-TURE PROJECT (201) 390-9550

DRYERS

Drum Dryers/Flakers 12[32" die.x 108" Siew Knox CI dbie. drum

dryar f 48"dia.x 28" drem fleker, chrome pieled

1) 49"dia.x 40" Cl lieker, mrg. by Suffelo (1) 48"dis.x 40 drum fleker, nickel pleted drem, mig. Slaw-Knox Fluid Bad

11 | Fitzpeirick Model FA 250, SS, 20 HP XP

Holofilte) Western Precipitation Model P80880-A, lwin screw, 12" dlo. z 20 long, 86 constr., jckl. rated 15 pal, coreplete with 7.6 HP

vari-speed drive.

1) New/Neven-Used Joy Precessor, CS, single scraw, 16"x13" long, reted 110 pel @340"
F., aprockot & chein drive by 1.5 HP variepeed drive.

Rotary Vacuum (1) 200 Ce. Ft. Stokee, SS constr., compit.
(2) 165 Cu, Ft. Pfeudier, Double Cone, G/L, 30
AFV/SO psijktd., 15 HP vari-drive
(1) 150 Cu. Ft. Blew Knox, Hicksi
(2) 132 Cu. Ft. Stokee, Nicksi
(1) 72 Cu. Ft. Siaw Knox, SS
(1) 50 Cu. Ft. Tilenium Double Cone
(1) 50 Cu. Ft. Tilenium Double Cone
(1) 50 Cu. Ft. Gamco, 31685 senitery, double

(1) 37.8 Sq. Ft. Horiz. Thin Film, vac. Int. & 150 psig, 304/31688 pelig, 304/31685 1) 37 Cu. Ft. Gemco, SS 1) 30 Cu. Ft. P.K Twin Shell, 30455 1) 20 Ce. Ft. Abbe Twin Cone, 3048S

(1) 30"x3' Bowen Laboratary w/3' cone bottom, SS conetr., w/centrifugel atomizer, 3 HP blower & motor.(1)
|1) Hiro leb size 32"diex2"w/2'cone w/centrif.

atomizer 38 contacte

1) 18' die. Bowen compil. sysiem 58 cen-tocte, new 1976

CENTRIFUGES

1) Oelavet SRPX 309, SS, 20HP 1] Unused Model B-10 Podbletelsk, Alloy 20 1) Sherptes AS-28, SS 2) Sherpies AS-18P, 318SS

i Alie-Leval SS Oscanier, Horiz., Mdl. NX314 2) Dors Oliver Mel. CH30 CSU "Merco," 31685 EDITECTS, 150 HP 1] Saker Perkine S-92 "Pushar Type," 8S, 50 HP 1] Sird 16" x 28", 318 ELC, contour bowl. [2] Sird 24" x38", 318SS, 40 HP

4 Sherplee P-3000, 31655, 30 HP 1| Sharplee P-1000, 95 20HP 1| Uneced Sird 35 x96, 3171, 58

11 Tolhurst 48" x 24" perf. basket, 31655 santiery, euto. plow & discherge, reted e5 s/cu. n. @ 900 RP M, 20 HP XP.
11 Tolherst 48" x 24" Seichmater, 31855, perf.

Fielcher 46"x 25" Suspended type, SS perf. backet, 20/10 HP Sharpise Ternedo 48" x 30", 31655, perf.) Alta Level Medet MAPX 210 T24, SS wetted

parts 2) Sherples C-27, 315 SS, welled parts, 40 HP) Sherpies C-20, Seper-D-Hydrator, 8S, 30 Hp) Dorr Oliver Mercane Screener Model C-400 X2, all S8, twie screw disch., 10 Hp

PARTIAL LISTING ONLY

RIGGING

DISMANTLING

RE-ERECTION

DEMOLITION

LIQUIDATION OF 160 M.M. LB./YR. SODIUM TRIPOLYPHOSPHATE PLANT-KEARNY, N.J. (1) 10,000 gal. Mix lank, SS constr. 13' dia x 10', 30 HP

(1) 8'6" dia x 46'6" Bartiett Snow Rotary dryer, 316 SS, 100 HP (1) 8' dia x 50' Louisville Steamtube

Rotary dryer SS clad, 40 HP (1) 11'6" x 70' Long Bartlett Snow Calciner, 316 88, 1100° C, com-

(1) 12' dia C.E. Raymond Seperator, Single whizzer
(2) Roto-Clone Typs N Wet Scrub-

bers 88 constr.

(1) 3,400 gel. Jkt. tank, SS constr. 150 psl jkt. (1) 2,600 Storega Tank, SS constr..

7' dis. x 9'. (1) Builer Building LARGE QUANTITY SILOS

Meny Screw Conveyors Aveileble Verlous Sizes, C.S. & SS Construction Buy Direct from Pisnt Site and Save Cell for Complete Detsils

EVAPORATORS

(1) 20 Sq. Ft. Kontro Horiz. Adjust-O-Film, 316ELC, 60 paig, 15 iii Liko New 37.8 Sq. Ft. Luwe Horiz. Thin-Film Dryer, 304/3151.

SS (1140 Sq. Ft. Kentro Adjust-O-Flim, SS constr., 20 HP (1147 Sq. Ft. Artise a rising Film, Hest. "C" (1) Approx 81 sq. ft. Pfaudler Wiped film, 318 SS, 100/85 & FV (1) 80 Sq. Ft. Kontro Wiped Film Syst., 68 constr., FV/150 psi

|11 UNUSEO 85 sq. ft. Luws thin film dryer horiz. 316 L weited parts, FV int., 150 pel sell etsen jkt. |16 141 Sq. Ft. Rodney kunt Turbo-Rim, 316 SS 16 pel int., 35 pel |kt 46 k9 xp

BLENDERS

BLENDERS

800 Cu. FI, littd. Obl.Ribn., CS
Approx. 480 Cu. Ft. CS, 75 HP
UNUSEO 460 Cu. Ft. Herion Paddle, CS, 75 HP
300 Cu. Ft. CS Dbl., Cone, 30 HP
300 Cu. Ft. KS 31638 Obl., Cone
78 Cu. Ft. Ft. KS 31638 Obl., Cone
78 Cu. Ft. Ft. KS 31638 Obl., Cone
78 Cu. Ft. Pt. Twin Shell, 31638
OC U. Ft. Jt. Bay Dbl. Ribbon Carbon Steel Contr. 25 HP (2)
9.3 Cu. Ft. CS Dbl., Core, 7,5 HP
3 Cu. Ft. Marion Paddle, CS
Cu. Ft. Salton Paddle, CS
Cu. Ft. Gentoc Obl., Cone, 30458
Cu. Ft. Pt., Twin Shell, W/Int., bar
Cu. Ft. Pt., 304 SS, W/Ig., bar.
Cu. Ft.Pt., Twin ahell, 88
Cu. Ft. Robinson Dbl., Rbn. CS
Cu. Ft. Robinson Dbl., Rbn. CS
Cu. Ft. Gentoc Obl., cone, CS, 11/4 NP
Cu. Ft. Pk. Salt Twin Shell 11/4 NP
Cu. Ft. Pk. Salt Twin Shell 11/4 NP
Cu. Ft. Howes, CS, Obl. Rbn.,
Cu. Ft. SS, Obl. Cone W/Equild-colids ber
Pk. Zig zalo

FILTERS

(2) 10,000 gel. Mix tsnks w/int. colls, 13' die x 10', 30 HP

(1) 4,300 gsl. Storaga tank, 304 SS.

Pressure Leaf

91/2' dis. x 8'

1-562 Sq. Ft., 318ELC, Hercules, 28 laavea 1-512 Sq. Ft., 316SS, Niagara, 21 leaves 1-400 Sq. Ft. R/L Sperkler 1-327 Sq. Ft., 304SS, Ind. Fitter, 11 leaves 1-320 Sq. Ft. Ourco 318 SS, 11 Leaves

1-259 Sq. Ft. Pronto Mdl. #3259, 75 palg -200 Sq. Ft., SS, Hercules, Horiz. 1-191 Sq. Ft. Enxinger, SS, Vert., 75 psi 1 - 157.64 eq. Fl. Sparkler model 55-5-28,

-150 Sq. Ft. Horiz., 12 Vert. Leef 318SS 1-135 Sq. Ft. NI, Sowser, Vert. 1-35 Sq. Ft. Hercules Model 5, 318 SS, horiz. tank vert leaves 50 pel

Rotary Vacuum

1-56.5 Sq. Fl. KS, Inconel 600 1-58.5 Sq. Ft. K-8, 318SS, Itexibelt disch. 1-87.92 Sq. Ft. Felic, SS welted parts, epring disch., 56" dis. x 8' lace drum 1-132 Sq. Ft. Dorr Oliver, 304SS, maxibelt

1-200 Sq. Fl. Elmco, 318SS, 8'x8' 4-250 Sq. Fl. D.O. 319L SS Precont, 8" x 10', sanil

-250 Sq. Ft. K-S 318SS, coll diach. -300 Sq. Fl. Elmco, 318SS welted parte. precoat type w/knils disch., 10" dis. x 10' drum, compil. w/control panel &

aux. equipment 1-314 Sq. Ft. Elmco, pracoat diach., 318SS 1-400 Sq. Ft. Elmco, CS, Precoal 1-500 Sq. Ft. Elmco, 318SS, belt disch. 1-3'x 1' 31885, knife disch. 1-3'x1' Corr Oliver, FRP w/receiver & Nash

H4 vec. pump, 1D HP 1-3'x 1' K-S comp. sya., 318 SS Flax-bell

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16"x 12"x 42" SS Pugralil, 3HP Verispeed
40"x20" Tolkurst centringe, Kyner lined, perf. basket
4500 Gel SS mixtarnk, 50 pel
3500 Gel SS mixtarnk, 50 pel
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63 ce. ft. C/S Mexican Paddle Siender
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500 liter Welex Mixere, SS
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1000 gel, 316 SS Reactor, 15 & FV/50 pel | kt., 10 HP

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drive, gearbox, 5" pitch conveyor, CIP, control panel (2) LATE MODEL **CENTRIFUGES**

20827-Bird, 18"x24" steel, conical bowl. 20826-Bird, 24"x38" eteel, con. bowl, gearbox. 20619-Bird, 24"x38", 8/8, 15 degree, contour bowl. 20664-Bird 24"x60", H series, steel w/motor. 20384-Bird 32"x 50", 8S T3 18 contour, 75HP. 12883-Blrd 36"x96" contour, 10deg., 7317 ELC. 20137-Alfe Lavel, NX 418-B31-60, 3168S, gearbox 17308-Dorr Oliver, 304SS, Marcomdl. 18L, 30 HP. 13565-Sharples, mdl. P 600, gearbox, motor. 19787-Unused Sharples, 3 phase, P3000, S/S, carbide 20407-Sharples P2000318S8, 20 HP drive motor. 21359-Sharples P3000 w/geerbox. 20686-Sharples P3000, 52:1 geerbox, S/S cesting. 21725-Sharples, P3400, S/S, geerbox & motor. 19248-Sharples, P5400, 316/3178S, 200 HP, gearbox.

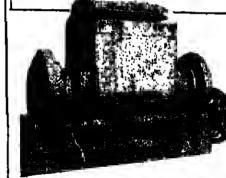
CENT-BASKET VERT.

21408-Delsval 22"x18" perf. basket hyd. drive. 15815-Delsval Mark III, perf. basket, 40"x24", 316SS, 30 centrifuge.

ROTARY VAC DRYER



22210-Bertrame, S/S 6'dia. x 12' dished heads, half pipe coil jacket 208 psi, 20/13 HP, unitized.



21459-Baker Parkins Mixer, dbl. erm, C/S, 300 gaf Geered both ends, 100 HP, mod. 18JUMMZ,

FILTER PRESSES

19846-Shriver P&F filter press, 12"x12" ekum platee, closed delivery, 23 chembers. 20534-Sperry Filter Press, 30", alumn. 20539-Sperry filter press 80", 35 Aluminum plates, 357 sq. 15370-Shriver S2" x 32", polypropylene, 27 plates, ratchet

closing. 15929-Shriver ALP, plate & frame, 18 36" x 36", S/8 recessed plates. 20076-Sperry filterpress, 3B", cast fron plates, closed delik

19482-Independent filter press, 42" x 42", polypropylene, 4 sys closed, 34 chambers. 20550-Sperry filter press, 42" End closer, 41 slum. plates.

Special Sale

MUST MOVE STAINLESS TANKS 12,000 GAL., T304SS, 12'Dia 14' high, llat bottom, open top (16) PRICE \$8000 ea. FOB PA #20655

TANKS-S/S

21283-Tank, S/S verl., 1200 gal., 5' dla.x6', flat top & bot. 20851-Tank, SS, 6000 gal., agit., 12' dla. x 14'8" H. 20855-Tank, SS, 12000 gal., 12' dla. x 14', flat bottom, open top. 17043-Jos Cai horz, tenk, 3048S, 18,000 gal., 12'6" dia. x 22'9'4" long, 10 PSI.

FILTER PRESSES

19848-Shriver P&F filter press, 12"x12" alum. ploice, 20534-Sperry Filter Press, 30", elumn. 20538-Sperry filter press 30", 35 Aluminum plates, 357 sq. 15370-Shriver 32" x 32", polyprepylens, 27 plates, ratchet

closing. 16929-Shriver ALP, plete & frame, 18 38" x 35", S/S recessed plates. 18799-Clow/Bethishem filter press, 38", recess plates, 25

chambers.
20078-Sperry litter press, 38", castiron pletes, closed deliv.
19482-independent filter press, 42" x 42", polypropylene,
4 eye closed, 34 chambers.



117" Dis., 78 Sq. Ft., jacketed, egli. 18 HP, élde Discharge. Celi Herb Landy (312) 350-2200

FILTER-ROTARY VAC.

15828-FE, inc. 36" dia.x12", S/S, string disc., 1/2 HP. 17477-FE, inc., 3' dia x 5', T318SS, belt disc., voc pump. 11177-Dorr Oliver 9/S, 5' dia x 8'1. 11853-Oliver T-315SS, precoat 5'3' x8'. 18431-K.S. flexibelt, 8' die . x 8' lace, 318SS. 18392-Eirmoo beli lilier, 8' x 10', etsel drum, w/Nesh pun 15327-Ametek, 8' de.x14'0'' lace, maxl-belt, S/S. 17938-Eirmoo, 3163S, 10' dia. x 14', krille discharge. 17283-Impcobel filer, 12" dia. x 12", 304SS, Nashvacuum 20251-K.S. T304, vacuum filter, 12" die x 14", 304SS, 20323-Dorr Oliver 11"8" x 16" lace, S/S cont. parts. 1488-Eimco 10'x10'rotary vac. filter.

PRESSES

UNUBED Menesty Express, 10 ton, 20 etetions. 11602-Colton Press mod. 260, 31 die etetione, 1800 TAS. 21382-FJ Stokes rotary tablet, 15 station, 10 ion. 2141B-Manesty rotary tablet. 18 station, 10 ion. 14425-Stokes Tab Press mod.#551, 51 etation, 4 ion. 21417-FJ Stokes rotary, 27 stetion, 4 ton, double elded. 03881-Komerak Greaves, mdl. 75MSS briquetting prose 13392-Fhzpatrick Chillsonator, 50 HP, mdl. HA-50-30-210. 13392-Frizpainck Cristoffetor, DOTF, India: 1474, 12 1011. 18802-Stokes eingle pucchi press, 800-530-1 (T4), 12 1011. 17224-Dorst compac., series TPA15, 20 tons. 10890-Stokes, mdl. R-4 press, 20 ton.

WE WANT TO BUY YOUR SURPLUS EQUIPMENT AARON PAYS TOP DOLLAR \$\$ CALL TODAY!!!

DUST COLLECTORS

21125-Fabri-IJet jdl.SQ9-48 bin vani, 42 sq. 11. 16398-Mikro dust collector, S/S, 63 sq. ft., mol. 9-6-100,

pulse je1. 21153-EVO, bin vent, 72 sq. l1., 8/8, 5 HP 20253-Unused EVD pulsa jet collector, mdl. 848F009C, 80

34-11. 211B2-JH Daymd. RJ-18RJ38, 125 sq. 11., CS, 3 HP. 21222-Fabri-Jet, mdl. SQ18-89, 151 sq. ft. 20396-Pulsa jet collector, "FlexKleen," mdl. 58CT24 AV II

w/175 sq. lt., cloth, C.S. 21286-Mikro dust collector, 285 sq. ft., S/S. 20258-Unused EVO Corp. pulse jet dust collector, mdl. 998F030C, 350 sq. II. 20255-Unused EVO Corp. dust collector, shaker type, mdl.

MS048C10, 576 sq. lt. SCREENS

21203-Sprout Waldron silier, D10, 8 decks. 21150-Sprout Waldron, D10, 1HP, 10 decks, 8/8 cont. 21187-Sprout Waldron, D10, 2HP, 10 decks, 8/8 cont.

LIQUIDATION SALE

BUY FROM CALUMET CITY ILLINOIS LOCATION AND SAVE

LARGE POLYSTYRENE PLANT

21875 - Sins, 178 cu. ft., S/S, cone bollom fiel by (t) 21891 - Bins, 450 cu. ft., C/S, epoxy lined. (t) 21804 - Sins, 450 cu. ft., C/S, epoxy lined. (t) 21805 - Sins, 500 cu. ft., C/S, e poxy lined, fiel so, ex cel bottom. (4)

21818 - Worthington cent pump, C/S, 15HP, 2006/94 44 paig (2) 21818 - Linten Pump - Inline, C/S, med. 4x5x8.5 YC, E

21908-Edw Renne burg Rot. Dryer, S/S, stem hel, S HP. (4) 21881-Heeters, C/S steem, type SNF 2420(8) 21814-Flotrenics bin vent, litters, 122 sq.tt. 123xd.

21888-Ketron Feeder twin srew, S/S mod \$40-146 21801-Sperkler filter, 352 sq. ft. C/S, mod YR Mil 21882-Screw conveyor, 304 SS, 7" die. x ftl. 15% 21888-Strong Scott Rib Slender, 25 cu.ft., 5 HP. [1] 21820-Welex extrude: 5", 30:1 L/D, 400 HP. 21870-Welex extrude: 8", 30:1 L/D, 500 HP. 21876-Coneir pelle tizor, 5/8, mod. 1024, 40 HP. (7 21874-Weler beth. S/S, portable. (4)

21887-Ross Stetic Mixer, 304SS, 3"x6 element | 21917-Ingersal Rend Pump, In-line pump, C/S, S/S

21815-Goulde, C/S turbine pump, 200 HF.(2) 21813-Warthing ton cent. pump, SAS, 2 HP.(4) 21812-Unien pump-inline, 8/S, 7.5 HP (2) 21889-Pleudier Reactor, 1,500 gei., 316LSS displit. 21886-Pleudier Reactor, 10,000 gel. 316LSS displit. HP. (4) 21800-Pleudler Reactor, 15,000 gal 316L SS dre

21887-Metal Arte Corp. veesel, 17,000 gel vet-3 SS. (2) 21910-Tank, 840 gel., Rattep & bottom. 21820-Modern Welding Tank, 4800 gel hoft. AM

21878-German Rupp pump, centrifuget, 0/8mod.88 21871-Prodox sxtruder 8", 30:1 L/D ratio, 600 HP. 21892-Buffelo blower, size 30, C/S, 10 HP (3) 21808-Sulfale exheust lan, size 36, type 8, 15 kg 21880-Sulfale exheust lan, size 36, type 8, 15 kg 21880-Suter Still Blower, C/S, 40 HP. (4) 21822-Sulfale blower, type 40-3CB, 40 HP. (4) 21884-Bulfale blower, med. 48-3CB, 75 HP. (8) 21883-Sird, 32 x 50 centrifuge, 80:1 gearbor. (4)



21883-Bird Centrifuge, 32x50, 80:1 geat

21883-Environeering scrubber, med. 833-1406 21885-Tenk, 860 gal. vert. coal tet epoxy and 21811-Tank, 5400 gel. vert. C/8 epoxy coaled fail of bot 21803-Tenk, 50,000 gel. vert. C/S apoxy, 54 bol set

21868-Brighton Corp. Tank, 12,000 gel. vert, 200 315LSS. (5)

21802-Worthington compressor, mod 488 1, 1911 psl. (2) 21979–Sweco sifter 80", med. L860386, 23 P. 21928–Kason sifter 80", med. K60185, 595, 119 21928–Kason sifter 80", med. K60185, 595, 119 21884–Flotronice Cyclone med. FTHE 1370-1 14, 35 12" die. dieh top. (3)

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COMPLETE REACTOR SYSTEMS...WASTE THEATMENT PLANT ...ROTARY VACUUM DRYERS... CENTRIFUGES...TANK FARMS ...AND MUCH MORE! JUST A PARTIAL LISTING OF EQUIPMENT:

位尼斯省部批判的图8 ALISTSS EQUIPMENT COMPLETE WITH CONTIOLS, PLOWS, SET HE FOR NITROGEN PURGE EACH MOMBRIDIALLY SIGN MORNING 40"x24", 40"x24" SHAFPLES 5-1, HYHRALLIC HRIVE (5) 30"X15" SHARPLES "TOHOHADO EJATIC," SE WEST HYDHADI IC DRIVE

> 6周月間以上2001年 3, 25, 30, 40, 100 101

它如此語為建設。這個體密 INGERSOLL DAND 21.1:-16-1027, 150 HP, 100 PSIG (3) INGERSOLL RAND REE-15 %- 10x7, 125 HP, 70 PSIC

DOUBLE COME VACUUM SYSTEMS DEDICTHICH GAL, 60 CH. FT. PI'AUDLI'II G/L, 70 CII. F (.

DEVINE 316SS, (1) 30, (2) 70, (2) 90 CU, FT. SYSTEMS 310SS ROTAHY VACUUM HINYER SYSTEMS (3) 142, (1) 120 CH, FT. SHELF: 6 VACUUM DRYPH SYSTEMS VARIOUS SIZES & MATERIALS OF CONSTITUTION SS & CS ROTARY VAC. DILYENS: 125, 100, 90, DU, CH. FF.

FILTERS FILTER PRESSES: ERTEL PHESSURE LEAF (6) STAR 10" DIA., 111 & 21 CHAMBERS, SS SPERRY 56", 20 & 35 CHAMBERS (4) VACUUM BELT EXTHACTORS: 2 FIMCO 2'x12',316SS VAC. BELT FILTER SYSTEMS

40FILTER PRESSES 42" 43" 48" 56" POLY PRO, IT/L CAST IRON 4 PASSAVANT INDI . 200 VAC-U-PRESS BELT FILT EIIS, 25D SQ. FT fire prevention equipment INCLUDING: DIESEI, POWERED FIRE PUMP...NEW IN 1804 ELECTRIC POWERED FIRE PUMP 150 HP

100 CU. FT. MUNSON SS DOUBLE RIBOON OLENDER SYSTEM LITTLEFORO MOL. FKM2000-0, 73,5 CU. FT. 70 CU. FT. DAY, SS RIBBON BLENDER SYSTEM

BAUERMEISTER TURBOMILL, 40 IIP, COMPLETE SYSTEM FITZPATRICK MDL. DO 0ASO 7.5 HP COMMINUTORS 7.5 HP FITZMILL MOL. DKSO12 COMMINUTOR ENTOLETER MILL 5 HP, MDL. M1112G1-2S

100'S OF PUMPS

REACTORS **GLASS LINED**

11 SS JKT. AGIT. KETTLES FROM 750 GAL. TO 5,000 GAL

(1) 3,000, (7) 2,000, (22) 1,000 (8) 500, (2) 300, (1) 200, (1) 130, (4) 100, (4) 50, (1) 30 GALLON (4) 100, (4) 50, (1) 30 GALLON (4) EACTORS EQUIPPED WITH TW DRIVES, MECHANICAL SEALS MANY WITH VARIABLE SPEED ORIVES, GLASS RECEIVERS & GRAPHITE HEAT EXCHANGER STAINLESS STEEL 316 & 316 ELC 1,100, (7) 1,000, (7) 500, (2) 300, (1) 30, (1) 10 GALLON

SMITH MOLECULAR ROTA-FILM MDL. 700-12-P, SKID MOUNTED SOLVENT RECOVERY SYSTEM OTHER DISTILLATION COLUMNS AVAILABLE

750 GAL 304 SS READCO MIXER SIGMA
SHARPLES SS MODEL P-3400 CENTRIFUGE UNUSED (3)
6M' ROSENMUND (NUTSCHE TYPE) 316 SS FILTER
4,200 GAL. HAST C REACTOR 125 FV/175
UNUSEO 1000 SO. FT. HAST C HEAT EXCHANGER

TANKS/PECEIVERS GLASS LINEO RECEIVERS & CHEMSTORS (2) 2,000, (10) 1,000 (1) 500, (4) 250, (5) 100, (2) 50 GALLON

STAINLESS STEEL
(1) 5,000, (1) 4,000 (1) 3,000, (0) 2,000 (3) 1,500, (4) 1,000, (1) 800, (7) 500, (1) 300, (3) 260, (5) 200, (1) 150, (3) 100, (3) 50 GALLON

GLASS LINED: (2) 10,000, (1) 5,000, (2) 2,000 GALLON
STAINLESS STEEL 316SS & 316LSS: (10) 10,000, (1) 0,000 (3) 7,500, (2) 6,000,
(3) 5,000 (3) 4,000 GALLON
(CYNAR LINED: 30,000 GALLON
HERESITE LINED: (1) 10,000 GALLON
LITHOPTE: (1) 10,000 GALLON
RIJDRED LINED: (3) 10,000 GALLON
FIU: (1) 12,000 GALLON
FIU: (1) 12,000 GALLON FRIP: (1) 12,000 GALLON STEEL: (1) 15,000 (1) 8,000, (2) 6,000, (7) 1,000 GALLON

OF YORD MARIE BURRELOIDERS A CITACH CONTINUEAR PRACTY OF Eige yangi Deeper eine bei

MODE AND MARKET STARTED AND AND AND A START OF THE START OF THE STARTED AND A START OF THE START (3) 220 CH, \$1.58 ROT, VAG DHYFR SYSTEMS 10'A 41' EBRICO ROY, MAC, PILITER

(4) LAGE MODEL HE VACE PUMP WARDLER VIOLETTER VIOLENCE 3000 स्था भाषात्र REACTORES 15,000 CAL STELLES WELL TO GE 22 4,000 GAL, G/L BOUY, TOURY/150FV JICE (4) 3,300 GAL, \$5.60/30 HP AGET, 110 POLICET.

(1) 3,300 GAL. SS 30 HP, 6TW, 300 PSI INT. (1) 3,300 GAL. 55 30 HP, 61W, 300 PSI IN W/COILS
(2) 2,000 GAL. L SS, 75/200 PSI JKT
TANKS: 6,000 GAL., 4,000 GAL MONEL V (4)
4,700 GAL. G/L PFAUDLER CHEMSTORE 30 PSI
SS HEAT EXCHANGERS FROM 100 TO 500 SQ. FT.

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Corn Syrup/Starch Plant 200,000, 150,000, 50,000 LBS /HR PACKAGE BOILERS 6'x 50' 304 SS 5'x 30' CS ROT. HOT AIR DRYER 4'x 31', 72 TUBE SS ROT STEAM DRYER 24.000 SQ. FT.TRIPLE EFFECT EVAP. TI TUBES 600 SQ. FT U. S. AUTOJET FILTER CEILCOTE LND (3) 500 SQ. FT. HERCULES 316 ELC PR/LF FILTERS (4) 12'x 15' EIMCO BELT CS ROT. VAC. FILTER (2) 8'x10', 7'6"x16' EIMCO 316 SS PRECOAT FILTER (4) 500,265 SQ FT. 316 SS PLATE HT. EXCHS. **DUCON SS WET SCRUBBER 11500 CFM** 9,000' 6,500, 5,500, 3000 GAL SS AGIT. MIX TANK (16) 7,000 GAL. 316 SS CONE BOTM. TANK 10'8"x 9'8" 3000 GAL 316 VAC.TANK15 PSI/FV EQUIPMENT MUST BE MOVED IMMEDIATELY

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October 27, 1988 CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER



KETTLES-REACTORS. SS

30,000 gal. 304SS fermentors, 14" x 24", 20 per/vec., cole, 200 HP agit. (4)
5,000 gal. 304SS, atm. |xi., 76 pal |ki., agit.
4,100 gal. 304SS kettle, 16 pal |ki., 6 HP agit. (2)
2,500 gal. 304SS kettle, 20 pal |ki., 7% HP agit. (2)
2,500 gal. 304SS reactor, 75 pal/FV int., 180 pai |ki., 1,500 gal. 304SS kettles, |kid., 5 HP agit. (3)
1,500 gal. 76vdler 316 U.S reactor, FV/180 pai, 6 HP Agit. (2)
1,160 gal. 304SS reactor, 16 pal ini., 26 pal |ki., 6 HP xgit. 900 gal. 304SS reactor, 76 pal /FV int., 150 pal |ki., agil. 600 aal. 304SS reactor, 300 pxi int., 76 pal |ki., colix (3) 600 get. 304SS reactor, 300 pxl int., 76 pet jkt., colix (3) 600 gxt. 304SS reactor, 160 pet int., 150 pet jkt., 6 HP xgt 300 gxt. \$16\$8 reactor, 76 psl/FV int., 60 psl)kl. (50)... 316SS and 304SS reactors and kettles from gallon to 400 gallon... call for list.

BIG PFAUDLER 316SS REACTORS

(3] 15,000 gal. Flaudler, 31665, 12'6"x 15', 100 psi, 200 psi jkt. Agit. (4) 10,000 gal. Plaudlor, 31688, 11'6"x 12'4", 100 ps), 180 psi, jit. Agit.

HEACTORS-GLASS

2 gel. Pfaudier, 750 pel/FV, 700 pel jkt. 20 gel. Pfaudier, 35 pel, 100 pel jkt., agit. (2) 30 gal. Pfaudier, 3ktd.
60 gal. Pfaudier, 25 pal, 100 pal jkt.
60 gal. Pfaudier, 25 pal, 100 pal jkt., agit., 1976
100 gal. Pfaudier, 25 pal, 90 pal jkt., agit., 1976
150 gal. Pfaudier, 25 pal/vac., 90 pal jkt., agit.
300 gal. Glascota, 25 pal/vac., 90 pal jkt., agit.
300 gal. Pfaudier, 100 pal/vac., 90 pal jkt., vari-drive agit.
500 gal. DeDietrich, 65 pal/vac., 105 pal jkt., 5 HP agit.
750 gal. Pfaudier, 25 pal, 85 pal jkt., 6 TW agit.
1,000 gal. Pfaudier, 700 pal, 90 pal jkt.
1,000 gal. Pfaudier, 75 pal/vac., 90 pal jkt., 10 HP agit.
1,500 gal. DeDietrich, 100 pal /vac., 90 pal jkt., 10 HP agit. 1,000 941. Praudier, 75 per/vac., 30 per ptt., 10 rtr agr. 1,500 941. DeDietrich, 100 per/vac., 90 per jkt., 1961, 1,500 941. Pfaudier, 100 per/vac., 90 per jkt., 25 HP agit. 2,000 gel. Pfaudier, 100 per/vac., 90 per jkt., 16 HP agit. 2,500 gel. Pfaudier, 160 per, 90 per jkt., 17W6 agit.

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Bird 32"x 50", centrifuges, 316\$5, contour (2) Walex 8" Extruder, 700 HP, 30:1 L/D (5) Welex 6" Extruder, 400 HP, 30:1 L/D (2) Consir 24" pelletizer, 40 HP (2) Rennaberg 5'x 25' 304 SS rot. he

dryers, 10 HP. (3) Sweco & Kason 60" screens, SS (2) K-Tron 7000#/hr. twin screw volumetr

feedar, SS, (S) Pfeudier 1,500 gal. 316L SS reector, FV/t80 pel' S HP egit, (2) Pfeudiar 10,000 gal. 316L SS reactor, 150

psi/FV inL, 180 pal jkt., hyd agit (4) Worlh. Plant air comp., 323 CFM @ 125 psi. 75 HP, Model #4-BB-2 [2) 17,000 gal. & 12,000 gal. 316 SS Tanke (3)

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DRVERS

Blaw Knox 6'4"x 40' 88 vac. dryer, 600 cu. ft. Blaw Knox 36"x 20" vac. dryer 316L 88, 72 cu. ft. Blaw Knox 66"x 36" vac. dryer, nickel Mathia 24"x48" flaker, chrome plate Sandvík 48''x 24' 85 belt flaker, UNUSED largent 60" x 45' SS conveyor dryer Nokes B" x 11" drum flaker Blaw Knox 32" x 90" dbl. drum Buffovek 42" x 120" dbi. drum, 160 psi Aeromatic #ST-6 fluid bed dryer, 6/10 KG Witte 36" x 10' fluid bed, SS, sanit.-cooler Stokes 36 sq. ft. Lyophilizer fraeze-dryer Renneberg 36" x 20" rotary dryer, 316 SS Renneberg 6'x 25' 3048\$ rot, hat air dryers, w/cyclone, etc. (2) 96" x 50" Louisville SS rotary dryer 10' a 100' GATX rot steam tube drysrs, 140 pal (4) Wysemont #VTL-24 Turbo-tray dryer, 30488 P-K 6 cu. ft. vac. dryer, 30488 P-K 20 cx. ft. vec. dryer, 304L SS (2) Abbe 30 cu. ft. 304\$\$ vac. dryer Devine 110 cu. ft. 304 88 vec. drye Pfaudler 165 cu, ft. glass-steel vac. dryers (2) Abbe 326 cu. ft. 31688 vec. drver Devine 370 cu. ft. 31658 vac. dryer Devine 564 sq. ft. vac. shelf dryer Miro 30" 88 a pray dryer Turbulaire 48" x 7' spray dryer

Bowen 72" spray dryer, 88 Bowen 96" spray dryer, S\$ FILTERS-VACUUM

36" x 1" Dorr-Olivar, fiber gines 9 sq. ft. 36" x 1" Ametek, 316 SS, 9 sq. ft. 40" x 3" Bird-Young, SS, 48 sq. ft. 4" x 16" Elmoo, 316 SS, 64 sq. ft., horiz. 6" x 3" Ametek, SS, 55 sq. ft. 6' x 4' Elmco, ''Elmcomet" polypropylane, UHUSEO B' a 8' Elmco, SS, 200 sq. ft., precoal B' x 10' Dorr-Oliver, 250 eq. ft., 31685, precost 8' x 12' Elmco, 31685, precost, 300 eq. ft., (3) B' x 14' Dorr-Oliver, 31685, precost, 350 eq. ft., (2) 10' x 10' Elmco, 31685, precost, 314 eq. ft. 116"s 18 Elmoo, SS contacts 12" x 14" Komline, 304SS, 525 eq. ft., flexibelt disch. (2) 45" dis. Elmoo tilting pen. vac. fifier, 316 SS

Den Oliver B' x 12' pu coal retary recomm hiicia, 31688 contacto.. Fricen Stocked, DiG SAVINGS!

FILTERS-PRESSUME 12 sq. ft. Amstek/Hiegera #12, 6S 64 sq. ft. Fxnda, SB, lktd.

64 sq. ft. - xnda, 56, kto.
65 sq. ft. Artisan "Oynamic" filter/weshar, SS (2)
140 sq. ft. Hisgara # 38-140 318 SS (2)
600 sq. ft. U.S. Autojet #1000, 304SS
30" Sparry filter press, 11 cu. ft.
56" Shriver filter press, 546 sq. ft., hydraulic
42" Byriver filter press, 777 sq. ft. hydraulic
42" Byriver filter press, 777 sq. ft. hydraulic 42" Bhriver filter press, 777 sq. ft., hydraulic 48" Shriver ALP recessed filter press, SS, 276 sq. ft.

PULVERIZERS

Mikro #6MA atomizer, 6 HP Mikro #6MA atomizer, 88 Mikro #20H pulv., 88, 6 HP Mikro #20H pulv., 83, 6 HP
Palimas #REFS pulv., 100 HP
Palimas #REFS pulv., 50/75 HP
Abbe porcalain pebble m#rs... 36"x42", 38"x48",
42"x50", 48"x80", 80"x48" (7)
Raymond 50" 5-roller hi-side milli, 1981, UMUSEO
Raymond #6068 H-side roller mills, dbl. whizzer (2)
Raymond #73612 Hi-side roller mill, dbl. whizzer

NEW LIQUIDATION DRY DETERGENT MFG. EQUIP. .. NORTH JERSEY!

5-Kleissier dust collectors: 2000, 1400, 535 sq. ft.
5-Clevelxnd 120 cx. ft riboto blendxrs, 60 HP
5-80° C/C steel bucket elevators
5-Kleissier bag typs dust collectors
2-Box Filling Lines/ 160, 120 Boxes/Nin.
1-J.H.Dey 200 gal. sigma blade mixer, jktd., 40 HP
2-Moyno Pamp # ILBSSQ, 5HP.
2-FMC-Stokes form, fill & seal units
2-Entez #62B vibratory feeder, \$3, 60"x 16"x
UHBLSED

1-lesser volumetric powder carton filer. 2-Standard-Knapp case gluers 1-lercules drum mixer 1-200 gal. 88 tank, j.kt. & agit.



Ovar (50) Bird & Sharples dacanters

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METHYL VIOLET CRYSTALS Livingston Intl Freight 60 dms (3.798 lbs) (Neptuna Jede) Hong Kong, 8/22.

METHYLENE CHLORIOE 1 bks (1,097,999 lkbs) (Stolt Pridot Rolterdam, 8/29. METHYLENE GLYCOL 1 bks (7,054,087 lbs) (Stolt

Vincile) Araiu, 9/30. MISTOLIN LIQUIO Olberia Foods 3,491 cs (93,920 lbs) NOCHLORACETIC ACID FLAKES Leschero 1,108 hgs (134,250 lbs) (Quiseoldori Expres) Antwerp, 9/

MONOETHYLENE GYLCOL Gonhado 1 bko (9,225,230 lbs) (Poraginger) Jubail, 9/21.
MONOFOTAS SIUM L ASPARATATE HYORATE Kyown
Hakko 25 dnis (3,086 lbe) ILouis Mearsk) Kobe,
9/25

MONOPPOPYLENE OLYCOL 1 bks | 1, 101,782 ba) (San-

MONOPHOPYLENE OLYCOL 1 088[1,101,7 62/08](Sandale Farber) Tarregona, 9/21.

MONOSODIUM GLUTAMATE Aline moto 720 dans (77.098 lbe) (Ninorva) Sentos, 9/1 8.

3,240 bgs (246,909 lbs) (Becol Santos) Santos, 9/24.

2,520 dans (507.001 lbs) (Bacol Santos) Santos, 9/24.

Piter 2,180 bgs (114,048 lbs) (Sonte Ceterina) Sentos, 9/24.

Von Scheven I con 140,665 lbs) (Bacol Santos) Santos,

9/24.
Alinomoto 3,800 bgs (197.753 lbs) litape) Sanios, 9/24.
NAPHTHALENE OERIVATIVEB Meiko Werahousing 30 dms (0 lbs) (Tohbel Meru) Kobe, 6/22.
NATURAL BARIUM SULFATE Ora 8 Chemical 20 pkg

(40,812 lbs) (Evor Greet) Hamburg, 8/24.
MATURAL MENTHOL CRYSTA LSSercom 20 dms 12,403 lbs) | Amaricon Apollo) | Santos, 9/28 | NEOPENTYL GLYCOL Hriale | 1,000 bgs (4S,973 lbo) | Streinconon| Rotterdem | 9/25, | Nuode» | 1,000 bgs (4S,873 lbe) (Streinconon) | Rotter-

NEROLY BLANC r dine (410 lbs) |Minarve) Pio O Janeir.

NIACIN Lonza 300 dms (39,376 lbs) (Oussaiderl Expres)

600 dms (72,752 lbs) (Queaeldori Expres) Bremer-haven, 8/30. ACIN Lonza 720 bgs (40.653 lbs) (Dusseldori Expres)

NIACIN Lonza 720 bgs (40.653 lbs) (Dusseldon Expres)
Bremerhaven, 9/30.

NICKEL CATALYST PRICAT 8800 Capital City Producta
72 dms (29.392 lbs) (Ever Oreel) Aniwerp, 8/24.

NICOTINAMIOE Viotachem Rellly Tar 1,500 bgs (99.242 lbs) (36.0h Express) Aniwerp, 8/23.

20 bbg (35,D23 lbs) [Dusseldorf Express Aniwerp, 9/30.

NITRILE RUBBER 5 pli (11,733 lbs) (Datt Allentica) Felixe-

motive Salas 1,282 oit (2,310 lbs) (Zim

Crown Automotive Salas 1,202 pit (2,310 lbs) (2,111 Tokyo) Halla, 8/21.
NITROCELLULOSE INO Fayatta Chemical 112 dms (40,144 lbs) (Zim Tokyo) Barcalona, 9/21.
Heniol Phoenix Transport 10 dms (0 lbs) (Sea Land Voyager) Bremerhoven, 9/24,
NN OMETHYLANILINE 2 (nk (80,732 lbs) (Koin Express)

Antwerp, 9/23 90 dme 143,264 lbs) (Ever Greel) Ani werp, 9/24. NONANOL 1 bks (2.205,211 lbs) (Stephania) Rotterdam, 8/27.

NOPYL ACETATE Curto & Funk 3 dme (1,448 lbs) (Bnillo Thien) Rolferdam, 8/29. Savino Oel Bane 20 dma (6,782 lbs) (Piler) Valencie.

9/28.

NUTMEG OIL Frizche Oodga & Otcoft 19 dms (7.476 lbs)
(Hoegh Cairn) Padang, 8/24.
24 dms (9,938 lbs)(Hoegh Cairn) Padang, 9/24.
O OIANISICINE Berro 6 hpg 190 dme (31,467 lbs) (Ming Star) Kobe, 6/21.
O ETHYLPHENOL Paneipino 5 dms (0 lbs) (Sea Lend Voyager) Politerdem, 9/24.
OCOTEA CYMBARIUM OIL SASSAFRAS OI 136 dms (48,069 lbs) (Senie Caterina) ifopia, 8/24.
OLEOPRESIN SPANISH PAPPIKA Torrne Trdg 6 dme (2,910 lbs) (Oregor Moersk) Valencia, 8/24.
ORTHO PARA TOLUE NESULFONAMICE Taub Hummel & Schnell 80 bgo [38,626 bs) (Hanjin Long Seach) Dusan, 9/26.

October 27, 1986

120 dme (3S,049 bs) (Han)in Long Banch) Illustric 9/7/6. ORTHO TOLUIDINE OHYDROCHLORIDE Examina 1/15. dms (23,095 lbs) (Hanjin Long Brach) Breau, 1976 OXALIC ACID Atlas Intermodal Transport 770 dras

SOURIM METAPERIODATE Sodium Metaperode 1 : date: (BIC & F.) | Had ATLantica) Fastatova, 9/21 : SOURIES FASPITTEDIATE Oriox Chemical 560 bg (10, 144, 364) | Hadaj San Kobe, 9/21 : SOURIES PETERIOLIA IE Ocyasaa, 20 bbg (42837 bg (40,000 lbs) [Ming Slav) Koelring, 9/21. SO DEBAT THE THAT IN THE OFFICE AND PAGEST BY THE WILLIAM THE PROPERTY BY THE T R America Chamicols 1,430 kgs (79,435 lbs) [Barrol Senios) Ria D Janeir, 9/24.

ACETOAMINO SENZENE SULFONYL CL 720 legs Allow 1990 A. A. Cayan Ship Dept (5,512 ibs) (Thulmose) Alexanda (40,785 lbs) (Ming Star) Nobel 9/21.
POIAZO DIPHENYLAMINE SULFATE Leading Fixelis 1-1 of the Alexandria half field 200 lays 111,023 by (Today)

dms (1,720 lbs) Inning Sinr) Note, 9/21 P DIAZOOIPHENYLAMINE SULFATE 40 dins (II list Alexandra 49 30
Alexandra 49 30
FI ARRIVES TO FEATURE SARVA Chemicals 23 66
(1.1.11-10:4) Particular an Apollo Buenos Aras 9/8
COLD AMERIA AND HARMAD ONAS 30 directors and policy and property and prop (Louis Maersk Kobs, 9/25.
P HYDROXYBENZOC ACIO Mebay Chemical 600 log[34,304 los)]Dussaldorf Expres) Antworp, 9/30
P TOLUENE SULFONYL CHILORIOE Deuto Shipt 80 dire.

COLLAND HAZIMI HAZIMI HAZIMI OGAS 30 000 [3.57183] D. Cachind Express | Handron, 19/20 |
F. H. LAMIC, A. T. L. AZIMI Shipa 1,800 bgs 188-85 bg [H. Laman Lama] Hazimi Hazimi Hazimi Hazimi Hazimi Hazimi Hazimi Hazimi Ogas (90.538 bg) Dog American Laman Lama (31,745 lbs) (Ming Ster) Koho, 9/21 PARA ACETAMINOOENZENE SULFORTYL G Mil-in 1.11 dms (51,852 lbs) (Ming Star) Kubu, 1921 PARA AMINO ACETANILIOE 100 dius (13,228 lbs.) (Aurer

Ican Utah) Kobo, 9/29.
PARA METHYL BENZYL CHLORIOE Lean Brig Fwells- 111 dms (4,980 bs) (Ming Star) Yekohama, 971 PARA TERT BUTYLSENZALOEHYDE 80 dms 145,646 ibs) (Evar Govern) Osako, 9/30. PARACETAMOLE POWDER 720 dnis (46,0 12 lbs) (Amer

ken Utah) Kobe, 9/29.
PARAFFIN PETROLEUM WAX Astor Wox, 31: ptt (#11,735) ibs) (American Ohio) Falisstovio, 9/26 ARAFORMALOEHYDE Ashlanii Chemical III ph (18.070 ibs) (Sea Land Advantur) Algodinas, 9/20 PENTAERY THRITOL Oagussa 881 lys (4-),438 list (1) acc

ATientica) Bremerhaven, 9/23. Montedison 20 pli (40,476 lbs) (Ever Summit) Legiterin.

PERFLUORO OCTANE SULFONIC ACID Constroint Chemicals 1 bxs (11 lbs) (Ousseldort Expres) (Tamiburg, 9/30
PERUVIAN LIME OIS FILLED OIL Citius & Allied Essencies

8 dma (3,396 lbs) (Santa Rila) Calino, 9/30 PHOSPHORIC ANHYORIOE 585 dins (40,926 lbs) (Evist Summil) Fos, 9/24. POLYAMIDE POLYMERS SYNTH RESIN A Schulman 394 mix (32,192 lbs) (Ever Greet) Antwerp, 9/24 POLYBUTADIENE RUBBER TAIPOL Mitsubishi hill 64 cs

POLY801ADIEWE HUBBERT IAR-OL MINISUOSINIIII ON 15 (169.437 lbs)(Nepruna Jade) Kachslung, 9/22 POLY8UTYL ETHANATE lols Chemicals 24 dins 13,000 lbs) (Ouoseldari Expras) Rojledam, 9/30 POLYCARBONATE RESIN Shuman Salos 600 bgs (33,893 lbs) (Ming Star) kaba, 9/21 POLYETH'/LENE Marck 390 hgs (19,629 lins) Illapot Sau-

tao, 9/24. POLYPROPYLENE RESIN Marubent America 000 bgr. (4,312 /ba) (Ever Govern) Takyo, 9/30
POLYTETRAFLUOROETH YLENE Suttalorno of America. 420 dms (12,558 lbs) [Tolibel Maru] Kolio, 9/22 POLYVINYL ALCOHOL Manubent Amarka: 400 force

110,042 lbs) (Louis Mearsk) Nobo, 9/25, POLYYINYYL CHLORIOE Riverdale Mills 792 bqs (45, 194 | bej (Atlantic Cartler) Gothenburg, 9/22. POTASSIUM BROMATE Ameribrom 107 drug (0 lbej (2 icu Tokyo" Halla, 9/21. POTASSIUM CARBONATE L B Pussell Chemicals, -300

bgs (44,321 lbs) (Zim Tokyo) Heila, 9/21. POTASSIUM CHLOPATE T B Americo Chemicals, 1st-1 pkg (43.947 lbs) (Soe Lond Advantin) Algeoras. 9/24.

9/24.
POTASSIUM CYANIOE Oegussa 1,080 ilins (122,09) ilin)
(Quseeldori Expros) Oromenaven, 9/30
POTASSIUM FLUORIDE Alliol 4 kys (28,318 ilin) (500
Land Voyager) Rollordam, 9/24.
91 ilins (5,456 lbs) (Koln Expros4) Oromerinven, 17/31
POTASSIUM FLUORIOBORATE LA Porto Off kys (18,519)
lbs) (Ariania Carilari) Inversed 9/22.

bs) (Arientic Certier) Liverpool, 9/22
POTASSIUM FLUOROTITANTE Mirans 680 kg; | 38, 1911 POTASSIUM PEUGROTHANTE MITTERS GOUDER LANDERS

(bs) (Ming Start Yokohamas 9/21.

POTASSIUM HYOROXICE Autolype 9 pcs (4),881 lbs)

(Allentic Carller Liverpool, 9/22.

POTASSIUM PERMANOANATE Antolican Intl. (60 ture)

(43,255 lbs) (Sea Land Voyegor) Retinrulin, 9/24 POTASSIUM TITANIUM FLUORIOE La Portir 90 kips (20,601 lbs) (Atlantic Cartier) Liveraged 2005 PSEUCOEPHEDRINE Groyingr Chemical 20 cm (1,279) hs) (Amaricon Melne) Hong Kong, 9/23.
PSYLLIUM SEEO HUSKS F W Myers 960bgs (0%, 12-11bn)

(Amarican Urah) Khor Frikan, 8/29. R SALT 300 bgs (22,311 lbs) (Nephine Jado) Hung Kong.

SEEOLAC Parks 280 bgs (47,037 lbs) (Vishvii Parikaij) noro Truig 20 cln (243 lbs) (Min(1 Silm) ale Infl 2,800 cm (35,825 lbs) (initin) Short Yukohumu.

SESAME SEED Grout Cakou intl Tuly PRO Lagr (44.-) 411 ft -- 1 (Salar Louis) laina, 9/19. 1) F SCI4MIO 2,400 bys (108,003 lbs.) (Sala Protect

ncher Imports 1.940 bgs (91,998 lbs) (Sidul Louis) Helno, 9/19. er linports 900 bge (44,616 lbc)(Stan Pecko) Hirras.

SOOIUM AZIOE Brewner Inii 40 dine (4,850 lbs) [Mino Slar) Kobo, 8/21. SOOIUM BICARBONATE VIrusa Products 1,185 lkgs (121,078 lbs)(Evor Greef) Antworp, 9/24, SOOIUM BROMATE Amaribrom 91 rkms (0 lbs) 12km

SOOIUM BROMATE Amaribrom 91 rirns (0 lbs) 12hm
Tokyo) Halle, 9/21.
SOOIUM CHLORITE Dogusse 239 dms (44,396 lbs) (Oussalder) Expres) Hamburg, 8/30.
SODIUM FLUORIDE CRYSTALLINE Trane World Shpy
700 bge (39,973 lbs) (Ever Govern) Osakn, 9/30.
SOOIUM HYDROXICE Mailinckrodi 336 dms (39,106 lbs)
(Oarl Atlemica) Bremerhaven, 0/23.
Helino Jobmen Sidms (O lbs) (American Meine) Jeddah.
9/23.



Waste Deadline Coming Soon

Foliace Application 18-14-409 [Pell Lynness] was

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the date (-tremmine-) II. ver Govern) Osaka, 930

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ties a hap or h. 1.31 haps. (215,236 lbs] (Dossedod Eggy

Fig. 16-EF, Rott Esp. (10, RSB Xed) (Dark Atlantica) Arisa;

Surroutings (2001) 6297 Broj (See Land Voyage) Ross

3. (101 Tep. (100) ZIPT Res) (Automotion Orio) Reperts:

4 But Haps (24 de 24 des) [Our seldorf Expres) Area

640 tigs (33 J-fo f65) (Tadonsz Koscuszk) Boro

720 Japa (39, 174 lbs) (Tadousz Kosouszk) Berk

haven 9/22 Leschace 7601-ys 1,49,467 lbst (Koln Express) Arkes

Romma 2,280 (11/3,770 lbst (Tadeusz koschszig):

Highlands, 9/22
M. Lind (1.200 logs 1/63,952 lbs) (Alasic Car. Goldendarth), 9/22
dispet 1/22/so tiles (Outra Theor) Hamburg 9/2
HTANIUM SES (Outra LUMPS Surnitrens 1/2005/9/8
His (Hearth of Control Outra 1/2)

64O, Diffel Earling Tolevol Barcatora, 9/2f.

TRUCKLY OFFICIAL I. THE ACAD ROUSS of 120 dois (4.7.1%)

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Antverp. 9/23 FRIME 1177 OF PROPARE Leschage Con (42,64)

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Unid Voyapin | Bremeibreen, 9/24 FRIPCH, 7 | 10 27 PLIATE Browning Chemical 40 7 [ALL 7 P. R. A. | Bullo Thlem) Hardburg, 9/29 TURMERIC PLOWING Unional Grocomy & Special 2009

(11,464 fter) (16xer) Carm) Ocurtisy, 9/24

U.Z

ULTRAMARRIC RLUE Winter Clark & Decics 72/05

1-III. HG Tit r-) (American Chical Febratore, 9/25 ULTI (AMARIKI), PICIME HT Whiterker Clark & Dane il-

UTIFA FORMALDETTYDE 1,040 bgs (90,368 80) &

Tokyo) Hadin, 97:1 10:11 hr-1,4%; 194 ll r-1,2m Keolund) Gafa, 9/2 10:31 hr-1,4%; 194 ll r-1,2m Tokyo) Gafa, 9/2 10:31 hr-1,4%; 194 ll r-1,12m Koolung) Hada, 9/3

d F bio (45, 193 lied (Zun Kesdung) (1868, 9/23 1471 - P. Chillott (1809) - 1 con (139,903 lis) (6/45)

Forforcian, 1773 VITAMITTS 12.1 M Troducts flockers (3,571 bs/(0,684)

Figure 11 Limitated, "Yat" WINTE-Traff. Fish City Card Shipt 40 dms (5,544)

Marie and Multing Hong Kong. 0/23
What is call (1.45). A parented 80 days (37,888 bs) ferbar, Accounty P. Cambrette, 9/19.
YELL CW CAHNAULIA WAX Medicines 462 bgs (\$5.5).

Mahuttieren 1020

Red (Minerva) Fortifoza, 2918 STEARATE Good included 720 bgs (4,17)

: जाराज्य (संदर्भ) : पुरात (12,500 क्रिस् (दर्भ) Apadlo) Burtara Ales, 9/20

"REPRESENTING A 100 YEAR

SUPPLYING FOOD & COUPMENT WOLLD

DAY 30-GAL S/S DOUBLE ARM MITE F-OVERLAPPING SCHE BP 20-GAL S/S IXTO. DOUBLE ARM MITEA-OVERLAPPING SILEX BEADED 10-GAL 1216 S/5 TKTQ. DOUBLE ARM MULEA-INCOMPAGE THE SILE S/5 TKTQ. DOUBLE ARM MULEA-INCOMPAGE

PANS PALITASON 5-6AL S/S JKTD. BOUDLE JOHN MISSA DYEMPHOS NOT PALITASON 5-6AL S/S JKTD. BOUDLE JOHN MISSA DYEMPHOS NOT

PALLIASUN S-6AL S/S INTO, DOUBLE ARK MHEA-DYEMPING METER BY 2.75-GAL C/S INTO, DOUBLE ARK MHEA-TARGENTIK MEKENTAL DAY 5-QT. S/S INTO, DOUBLE ARK MHEA-TARGENTIK DAY 54 CH. FT. C/S GOUBLE RIBBON MAITR

DAT 3-Q1.5/SJATO. DUDEN I ARM WITH A STATE OF THE DAY 14 CO. FT. C/5 DUDEL RIBBON MACE BAT 18. CU. FT. 5/S VACUUM JATO. SUBBULAN MICELA-JUMLIA DAY 18. CU. FT. 5/S TATO. RIBBON-TYPE CFLINORICAL NOTE BEAD TI.5CU. FT. 5/S TOUBLE RIABON MACEA BITLEFORD TAMA-500 6 CU. FT. 1318 3/3 NATA. MYSER V/COMMER

INTILEFORD FRA-200 & CUL FL. TILS 3/3 KTR. WHEN NAMED AS AND LINES AND LINES

DAY 15 HP 1-PROOF 5/S DISPERSER OF MA/OR THAT

WE ARE ALWAYS INTERESTED HOURS

GODD SURPLUS EQUIPMENT

MIX IT UP

here (41,40% Red) Best Lamit Voyaged Rotes

TEVER Corse W. L. Gardonica, 9/24,

mortavon, 9/22

Environmental Prolection Agency sent notices to trazarrious waste treatmeal, storage and disposal facilities last week reminding them that as of Novemher 8, 1986, solven Is and dioxin-containing waste must be treated before dis-

Inder 1984 amendments to the Resinurce Conservation and Recovery Act (RCRA), the lead disposal of most univented hazarrhus bose and tubing. gastes must be banned over the next five

Sulfur Leasing The agency's first action under this reaurement applies to solvents and dioxin-con-**Moves Forward** taining wastes. Before Nov. 8, EPA says it milissue finel treatment standards for these wastes based on the best demonstrated available technology (BDAT).

to his letter to waste facility operators. EPA assistant administrator for solid waste and emergency response J. Winston Porter us it is expected that some solvent and doxin wastes will be granted extensions due lea shortage of available treatment capac-

llowever, it is not likely that concentrated spent solvent wastes will not be granted such an extension, unless these wastes are generated by small quantity gen-

Carbide Specialty

Covinued from Page 4

working to improve comonomer hiemis of VLDPE, very low density polyethylene, the latest addition to the "Unipol" product line. New power cable research revolves around developing ull rB-pure resin und insulaurg material, and smooth interfacing tech-

h the industrial cable area, researchers are working on lower emission non-halogearled flame-relardant PE technology, usng alaminum trihydrate, which, they hope,

ACCUMULATORS Surdard Metal 45" diameter, stainless steet accumutator. AIR COMPRESSORS

atol Rand 25 HP, air cooked, air compressor, 100 CFM, 100 P5I. ATTRITION MILL & ATTRITORS
E. ATTRITORS

this process with x, size 1S, 1/2 getton, 14 HP explosion proof. BOILERS-ELECTRIC romatics 100kW, 341,700 BTU's, water-glycol heat transfer system

BOTTLE CLEANERS o model J1 600 bottle cleane BUNDLER Grafitales bundler, model 500-2, automatic bundlor end sleave wrap.

Ctr Consoldated capper, sel for 63 mm, 60 caps par minuto. CASE ERECTOR

/BCForn-A-Metic model S-77, forms and bottom so als, 35-70 cases/ CASE PACKER CASE SEALER Claricot top and bottom case seeler, with cold give.
List model \$200 top only case seeler, pie saure plus.
Commodel \$200 top only case seeler, pie saure plus.

Ancol 5200 by only case so aler, with pressino glue. ENTIRGUGE

ENTIRGUGE

And A Series and A Ser Matth State 45 30°, perforate, 316 S/5, 50 HP XP hydraulic. Sapas 30° 118°, 316 S/S, solid book, top unload, 25 (4P, 45 Limit decidante, 304 S/S, manual unloading, 7 % HP TEFC.

its Meetinery 38" diameter stainless steel, engular coating pen APRESSION SECTIONS

Way compression section, model F, 0 long. Tr Compyor, signifess steel, 7" dia. x 136" long, 6" pitch, 1½ HP. KSPERSER "dia. vert. screw conveyor, discharge 132" H.

#500d Disperser, model VHS 400, 20 HP explosion proof. A model M. 10 HP XP VS disperser, with tub holder.
Heckmeyer 200/100 HP XP, tank mount, high spe Serve 1600 PP XP, lank mount, high speed dis-

b.fro double from dryer, 0" die. x 7" long chrome plated tolls VEZ DU dust collect ORS CEZ DU dust collector, 170 sq. ft., 1,800 CFM, 7½ HP motor. at survides, 3½ , 21:1, 5 zone, 40 HP vs/lable apead.

P.O. Box 469

net sulfur luporter. The discovery and developinent of additional offshore reserves can help meet U.S. requirements for a cost-competitive domestic source," says MMS ilirec-

will take over PVC and PTFE uses in eables.

faces a fremendous potential in the growing

The specialties unit is also said to be exper-

imenting with hexene as un alternative to

hutene commonner. Carbiile says its lines of

VLDPE, first marketed in 1984, show a high

degree of inherent flexibility with high envi-

ronmental stress erack (ESC) resistance, and

are expected to capture a share of markets

now dominated by polynrethane, thermo-

plastic elastomers, and vinyl acetate copoly-

mer blends, including pond lining, flexible

Interior Department's minerals man-

agement service is requesting nomina-

lions on specific areas to be considered

for a suffur lease sale in the Central and

Western Guif of Mexico. This initial step

in presale planning comes after re-

sponses were received on a request for

The last Federal lease sale for sulfur was

held in 1969, but during the late 1960's world

oversupply of sulfur developed, depressing

tion. This situation continued until 1976 when

consumption in the United States exceeded

supply. The US Bureau of Mines now predicts

a 3.2 percent annual increase in sulfur de-

"Since 1976, the United States has been n

the fertilizer market and U.S. sulfur produc-

comments issued in June.

mund until the year 2000.

disposable packaging market.

Their UV-degradable polyethylene

tor William D. Bettenherg. The general area of the call covers the central and western portions of the Gulf of

Mexico. The department is focusing its attention un blocks lying in waters less than 400 feet deep. Deferred are two sensitive blocks in the Flower Garden Banks.

product is already being used in multiple-pack soft drink holders, the firm reports, and ADVERTISERS' INDEX

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i-1 Chomical Equipment Co	McIniyro Chomicol Co21
	Ment Corporation
	Maer Corporollan
BING CHEMICAL IN	J. Little Morcar Co., Inc
	Milos Labaratoria a, Inc
mad Chighliff America	Montogisan USA, Inc
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	Occidental Chemical Corp. 98
	YIDA GROMICOIS COM
SARCO Incarparated	PPE INQUALIONAL 20
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rchem Industries24	Willagi blocase followout lac 63
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Il Chemio Corp	virginin Chanicala Inc
nali Fino Chamicela, inc	Wadeen Power Englisheni Co
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schlnory & Equipmoni Corp	White Ciremical Corporation24,29

FAOE-OMETER Afias Electric Devices Fade-Ometer, model 18-FT FILLERS-BAG

er model CR bag packer, 3"da. x 11"long spout, 20-250 lbs. cap Stoker model CR beg packer, 3" die, x 11" long sport, 20-250 lbs. cap. Stoker model 15VR beg packer, 3" dia, x 0" long spout, 20-250 lbs. cap. sloker model 15VR bag packer, 3" die. x 0" long spoul, 20-250 lbs cap. FILLER-PAINT

Ekrin Double Hasim Etter willridembosaer ILLER-PISTON Anderson model 340-4, S/S, 32 oz. piston, cup hiler with plug cappe Elgin Single Piston Filler, nickel, 132 oz. cylindor, no conveyor. Elgin Twin Piston Filler, steinless steel, 2-70 oz. pistons Elgin Twin Piston Filler, steinless steel, 2-70 oz. cylinders

FILLER-POWOER Persons model C, TO have filter, 7-14 oz. fill. B.F. Guinp Edibauer-Duplex nel weigh, size 3, semi-automatic. Persons Model C, 8 head, 7-14 oz. filler FILLERS-TUBE Kalix KX-50 metal lube filler, S/S, agitated hopper, 2 to 163 cc fill.

GEAR REDUCERS 20 (IP sxp. proof, 125 RPM output class 3, horizontal parattel chaff 20-10 HP XP, horizontal, parallel shaft gearneed, 250-140 output RP 7½ NP XP, horizontal, parallel shaft gearnead, 25 output RPM. GRANULATOR-OSCILLATING Cherry Burrell Model 542, S/6 oscillating granulator. Cherry Burrell Model 542, S/6 oscillating granulator.

Burrell Model 542, S/S oscillating granulator Burrell Model 542, S/S oscillating granulator v Burrell Model 542, S/S oscillation ry Burrell Model 542, S/S osciffating granulator. da oscillating granulator, model 43A, carbon steel conatruction Stokes oscillating granulator, model 43A, carbon steel (Owens tillinois kner seal gluer, for jers and bottles. Owens Illinois kner seal gluer, for jers and bottles. HOMOGINIZERS

n-Gaulin homoginizer, 2,500 GPH @ 3,000 PSI, 75 HP. HOT OIL UNITS on 12 KW hotellunit 440 volts Sterico 12 KW hotell unit, 44
KETTLES-MIXING Hamilton 200 gallon S/S kettle, double motion, 2 HP VS, 45 PS(jacket.

LABELERS-AUTOMATIC GLUE Burling through labeler, model AU 404.

LABELER-PRESSURE SENSITIVE Fasson model M-11-R pressure sensitive tabeler, 0" max, web width.
Fasson model M-11-R pressure sensitive labeler, 0" max, web width. LABELER-SEMI-AUTOMATIC sielle model 1410 labeler, hot meit, ½ pkrito i gal. w/ears. LID DROPPERS & CLOSERS

MILLS-COLLOID Petterson Ind Tri-Homoimil, 316 S/S, size 10, 40 HP. Tri Homo Corp. colloidnill, 316 S/S, 5ize: 10, 40 HP Promier 310 S/5 colloid mill, 10" dle., model KSH, 40 (1P. Morehouse 8-1400 stone mill, 20 HP explosion proof.

Tri-Homo 5" colfold mill, stainless aleet, 5HP explosion proof. MILL-HAMMER erizer model 3TH, stirrup swing hammers, 30 HP.

Mikro Pulverizer model ISH, stalinless steel, stirrup swing ham MILLS-KAOY Kady mill model 2 8H, 100 gallon batch, 40 HP explosion proof. MILLS-PEBBLE

Patterson 0'x5' pebble mill, 504 gallon batch, 25 HP explosion or J.R. Asing Enginearing 3:x4 pabole mill, 92 gal. batch, 3 HP NP.
Nortonpebble mill, 38"x42", 126 palkon betch, 0 HP explosion pro
Paul O. Abbe 30" die x 36"1, pebble mill, 45 gal. batch, 10 HP XP.
Paul D. Abbe 21" x 33" pebble mill, 45 gal. batch, 10 HP XP.
Steveno 30" 20" nobble mill, 45 gal. batch, 10 HP XP. Steveco 20" x20" peoble mill, 18.5 gallon batch, high stands, 2 HP U.S. Stoneware 27 gal pebble mill, frame and reducer only. Uaed Paul O. Abbe peoble mill, 7 gallon total, with 1/2 HP drive. Peul O. Abbs 16"x24" pebbla mil, 12.5 gation batch, 1 HP. Stevco 32"x36" pebble mill, 76 gailon batch, high stands, 5 HP XI MILLS-THREE ROLL

J.H. Day 10"x40" three roll mill, 20 HP explosion proof Kent 4"x5" three roll mit; 4 HP explosion proof. Kent 4"x5" three roll mit; 4 (IP explosion proof. MILLS-TWO ROLL MILLS-SANO & SHOT

Chicago Boller sand mill, model 16P.
Chicago Boller sand mill, model 3 gallon standard.
Pramier 16 gallon closed head/medie mill, 50 HP explosion proof dr
Morehouse-Cowles sand mill, model 12-30, closed head, 40 HP XP MILLS-BIEEL BALL PMLL3-5-0 FELL DALL Epworth 4x5' steel ball mill, 320 gallon batch, 20 HP XP. Patterson 29' x3' steel ball mill, 74 gallon batch, 75 HP XP.

Patterson 21/1 x3" steel bell mill, 74 gallon batch, 7/9 HP XP. Patterson 21/1 x3" steel ball mill, 74 gallon batch, 7/9 HP XP. Patterson 21/1 x3" steel ball mill, 74 gallon batch, 5 HP XP. MIXERS-BAKERY Hobart 20 quart mixer, model A200, 1/3 HP 32 peed.
Hobart 80 quart mixer, model M-802, 3 HP XP, 4 speed, tall pedest
Hobart 80 quart mixer, model M-802, 3 HP XP, 4 speed, tall pedest
Hobart 80 quart mixer, model M-802, 3 HP XP, 4 speed, tall pedest
Northern Conveyor 6 lane unscrambler, 29" wide. MIXER-DOUBLE ARM Readco 10 gal. 310 etalnissa steel double MIXERS-DOUBLE RIBBON

Falcon 33 su. ft., 8/S, double, ribbon blender, jacks Readco 10 cu. ft. S/S double ribbon blender, 3 HP. MIXERS—PADOLE Paddle Blender, 113 cu. ft., carbon steel, 10 HP.

MIXERS-PONY Ken 1 50 gallon pony mixor, 7 ½ HPX MIXERS-STATIONARY or, 7/2 HPXP, planotary ection, 4 lubs. Patterson Unipower, 10 HP TEFC, 39 RPM. Patterson Unipower, 712 HP TEFC, 28 RPM. MIXERS-TWIN SHELL

Patterson-Katley Iwin shell blender, 5/8, 1 cu. ft., 1/S bar, UNUSEO Patterson-Katley Iwin shell blender, 5/8, 1 cu. ft., 550 lbs/cu. lt., XP OVENS-GAS

Grievegss sven, max. lemp. 650 deg. F, interior 38"W x 26""H x 20"D.

OVENS-EL ECTRIC
Blue M 24" x 24" x 46" Interior, 310 deg. C
Blue M 25"W x 38"Hx 20"0 S/S Interior, 650 deg. F.
Despatch 37% "W x 37%"Hx 25"D interior, 850 deg. F. Spatch 37% W x 37% H x 25 Dinterior, 850 deg. F.
UMPS-CENTRIFUGAL, S/B
and h Allering 2" x 115" 878 Tiench & Marine 2" x 15" S/S central gal pump, 1HP TEFC VS. PUMPS-POSITIVE DISPLACEMENT

PUMPS-POSITIVE DISPLACE MEIN I Viking 3", model LL4124R, pressure rehef velve, 3 HP explosion proof Viking 2", model K 74286, pressure relief, 5 HP explosion proof. PUMPS-VACUUM Stokes model 612G MICROVAV vacuum pump. 500 CTM, 25 HP. REACTOR-STAINLESS STEEL 210 CR market, 300 cet. 14 7/14 7 PSJ. 3 HP explosion proof.

310 S/S reactor, 300 gat., 14.7/14 7 PSt, 3 HP explosion proof.
Patterson Foundry 50 gallon, 310 S/S reactor, 100/30 PSt, 2 HP.
Expert 75 gallon, 304 stainless steel reactor, 275/15 PSL, 3 HP XP VS.
Expert 76 gallon, 304 stainless steel reactor, 275/15 PSL, 3 HP XP VS.
BIFTERS/SEPARATORB Gump 3109/S pressure after, model CP-32, 35" dia., 34HP, sanitary Sweco 60" dia. C/S, single deck, open too, 241 IP. TANKS-CARBON STEEL, MIXING

Imperial 1,000 gallon carbon steel mixing tank with 5 HP XP 46 RPM Imperial 1,000 galion carbon steel mixing tank with 5 HP XP 46 RPM Patterson 850 gallon carbon alea! mixing tank with 5 HP XP 300 RPM

TANKE-JACKETEO Groan 430 gallon, 304 S/S tank, 15 PSI jacket.
Nooter Mig. Co. 160 gallon 304 S/S tank, lackted, 14 HP.
United Utensis 100 gal., 318 S/S tank, 150 PSI jacket.
TANKS-STAINLESS ST., MIXING 8.000 gellion 8/5 mixing tank, closed top, cons bottom, 14 HP 5.75 RPM, TANKE-STAINLESS ST. STORAGE nk.6 dia.x 191. Northern Conveyor 6 Iane unscrambler, 29" wide. WEATHER-OMETER Atlas Westher-Ometer model XW-WR, auto humidity, chart recorder

chiles. Atlas Weather-Ometer madel XW-R, auto humidily control, cher MISCELLANEOUR Schmutz Mig. Co., inc. lop greins lise i printer, model CM24, 24".wide,

Stuart Equipment Co.

(312) 473-4500

October 27, 1986

CHEMICAL MARKETING REPORTER

North Chicago, Illinois 60064-0469

CHEMICAL MARKETING REPORTER

Cargilles LAB-RO Division TABLETTING BLENDING PROCESSING

☐ PACKAGING

SUPPLY	
PRODUCER	CAPACITY*
Du Pont, Memphis, Tenn	125
FMC, Beyport, Tex	
FMC, South Charleston, W. Va.	
Interox, Deer Perk, Tex	110
Total	415

*Millions of pounds par yeer, 100 percant beals. Du Pont Canade is building a 80-million-pound per yere plant in Mattland, Onterio, due on stream January 1987 FMC expanded capacity at its Bayport facility by 25 million pounds in tha third quarter, 1985, and again by 10 million pounds eerly this year. FMC has postponed construction of a 22-million-pound-per-year facility in Squamish, B.C. interex completed a 22-million-pound expanaion in July 1985. Degussa Corporation is constructing an 80-million-pound-per-year pient in Mobile, Ala., due on stream in early 1987. Oxychem Cenada, a ventura involving C-I-Land Atochem and L'Air Liquid of France a building a 44-million-pound-psr-year plant in Becencour, Quebec, schadulad for completion in Septembar 1987.

1985: 300 million pounds; 1986: 320 million pounds; 1990: 410 million pounds. (Cenade and US)

Historical (1976-1985): 4.4 percent per yeer; future: 6 to 8 percent per yeer through 1990.

Historical (1952-1986): High, 45c, per pound, 70 percent, tankcars, f.o.b. frt. equald; low, 23c. per pound, seme besis. Current: 45c. per pound, seme basis.

USES

Chemical synthesis, 24 percent; pulp and paper, 23 percent; environmental uses (includes municipel end industrial water treatment end geothermel steem treatment), 18 percent; textiles, 14 percent; mining, 3 percent; electronics, 3 percent; miscellaneous (including food end cosmetle uses and the distributor market), 15 percent.

STRENGTH

Hydrogen peroxide use is growing repidly in Caneda es new thermomechanical wood pulping mills come on stream. Environmental applications based on peroxide's non-polluting oxidation ability are spreading through new applicetions and increased EPA pressure on Industry. Although small volume-wise, special markets such as esceptic packaging are growing quickly.

WEAKNESS

New peroxide plants in the US and Canada will create significant overcapacity until demand can catch up to supply. The uranium mining market is flet and geothermel use is declining in the face of an alternative technology.

Existing markets will keep peroxide growing well, and potential applications could produce growth well above current projections. Most promising is home laundry detergent use of peroxide derivetives as bleeching agents. Products ere currently being test merketed by mejor detergent compenies. Also possible ere treatment of waste cellulose for animal feed use, an application now in the R&D stage, end bloreclametion of orgenicelly contaminated soil.

CHEMICAL PROFILE HYDROGEN PEROXIDE OCTOBER 27, 1986 BOOKSHELF | JOBS & PEOPLE {{{}}}} JOBS & PEOPLE

Chemical Dictionary

The expanded and revised fourth edition of this chemical dictionary Includes apply mately 100,000 entries from chemistry, biology, physics, mineralogy and melalung well as descriptions of the most important manufacturing processes and machining materials and finished products and terms used in every phase of engineering technical development.

For chemical compounds, the book provides chemical name, synonymous as atructural formula, molecular weight, physical properties, specific gravity, meltig bollinga pointa, solubilities and uses.

A special feature is the compilation of tradename or proprietary products in left. of synthetic resins and plastics, foods, ilrings, cosmetics, metals, rubber, panks varnishes, detergents, petroleum, electronics and radinactivity.

The nomenclature is that generally adopted by the chemist and engineer and references are included and arranged so that abstred terms can be located with minimum of effort.

*CONCISE CHEMICAL AND TECHNICAL DICTIONARY, Edited by H. Bennett Clothill inches, 1,269 pages, Chemical Publishing Company, 912 Cherry Lane, Vestal, N.Y.1380 [8].

Quality Assurance

Both purchasers and suppliers of minnufactured products of all kinds need asset that products will perform their intended function safely and with an acceptable and Mear Corporation. Mr. Meer has been of reliability. Providing this assurance requires certain specific managementals: with Mear Corporation. Mr. Meer has been and the formal discipline of quality assurance provides the framework for these acc. while a Corporation for 18 years and had prameter formal approach has become increasingly necessary for a number of reason to Newmont & Co. contractural requirements, the need to provide evidence of meeting statologands latory requirements and above all, the safety-related and economic consequents LOUIS L. LOSSBROCK has been named product fallure.

Criteria for management actions in respect to quality assurance are defined: number of national standards, but these are very general criteria and need to be to preted" in the context of particular types of manufactured product.

This book discusses and analyses the unique characteristics of this industry. Chemical Company... JOHN BURROWS has relate to the quality assurance approach and then makes a critical analysis of the been named manager of FMC Corporation's quality assurance criteria and how they should therefore he applied. The almostic: Marine Colloids Division. is to give guidance to engineers/managers associated with the process plant pie? LLOYD A. HUDSON has been appointed and practices in the context of their linkstry. The book should be helpful loconia- product manager of ultra-high inolecular with relevant quality assurance standards and specifications.

*QUALITY ASSURANCE IN PROCESS PLANT MANDEACTURE. By J.H. Rogerson Ckel inches. 159 pages. Elsevier Science Publishing Company, 52 Vanderbitt Avenue New Yol. named national sales manager at the Agri-

Non-Prescription Drugs

The American Pharamecutical Association has published this newly revisit updated eighth edition of its handbook* on non-prescription drugs. Pharmacists* GARY MERTSCHIN has been uppointed dicians and other health-care professionals have been using this text for over two and it has become the standard classroom text in pharmacy courses dealing mill field. Four years of research, editing and review have been devoted to this next All chapters have been revised and a completely new one (on antipyretics) but added. New Illustrations, anatomical drawings and full-color photographs are cluded. The handbook contains the latest information on the Food & Drug Almer tion's review of over-the-counter drugs as well as patient assessment and consulta

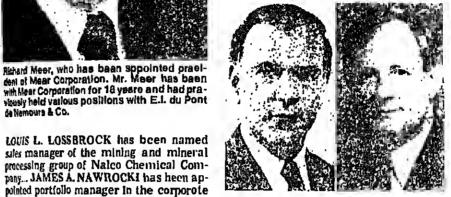
The index has been expanded and all non-proprietary ("generic") and trade nondrugs, in addition to disease states and symptoms, have been cross-referenced Polytology United and Symptoms, have been cross-referenced Polytology United and Symptoms. tables listing non-prescription drugs and their ingredients have been updated. *HANDBOOK OF NONPRESCRIPTION DRIEGS, Cluth, it /2 X 11 /2 Inches, 741 pages And Pharmaceutical Asociation, 2215 Dougth utton Avenue, N.W., Washington, D.C. 20037, \$100.

Scherer Elects Regional Presidents

R.P. Scherer Corporation has elected Kenneth R. Monroe, Jr. president of its major domestic subsidiary, R.P. Scherer North America, and Barrie P. Webb Pacific re-

Mr. Monroe joined R.P. Scherer after 20 years of experience in both the domostic and pharmaceuticals industries as assistant to the president last June. R.P. Scherer North America is headquartered in Clearwater,

Mr. Webb, who had been president of R.P. Scherer North America, will be overseeing the company's softgel operations in a geo-graphic area including Australia, Japan and



rector of marketing services at Soltex Poly mer Corporation... BILUCE IL OLSON has been named business manager of emuisions within the chemicals group of Ahr Products &



Chemicals, Inc... DAVID T. DAVIS hos been elected vice-president and treasurer of A.H.

JANET E. MANN has been named general manager of the chelate chemicals management unit in organic chemicals at Akzo Chemic Americo... GREGORY T. COOPER has been oppointed general manager of the distribution group at Chemtech industries,



Matthaw A. Taylor, who has been named preal-dent of CYRO Industries. He leaves the Chemi-cal Producte Olvialon of Amaricen Cyanemid Company where he was president to assume the position with CYRO, a partnership of Cyanamid and Rohm GmbH of West Germany.

Inc... JOHN J. EHLIG has been named sales representative for the chemical catalysts and processes department in Englichard Corporation's Specialty Chemicals Division. WALTER KOSACIIUK has been appointed

national sates manager for railroads for E.I. du Pont de Nemours & Co.'s maintenauce finishes groulp... EDWARD A. SCHMITT has heen named manufacturing manager for Georgia Gulf Corporation's commodity chemicals... KEVIN M. CURRY has been appointed erea manager for lilinotts at A.L. Loboratories, luc.

DAN GILBERT has been named technical director nt Surface Protection Industries, Inc. in Los Angeles, Calif... CAREY GLOUSEIt has been uppointed sales representative for Central and Northern Indiana nt A.L. Laboratories, Inc... DONALD E. SAUNDERS has been elected executive



Salsbury Chemicals Appoints Managers

Salsbury Chemicals, a unit of Salsbury Laboratories, has appointed Shetdon Gelman Northeast marketing manager and Warren Dunkel Midwest marketing manager.

The appointments continue the company's expansion of its chemical manufacturing services. It expects to service the Southeast **b**y year-end when an office in Atlanta is

Mr. Gelman joins Satsbury from Stauffer Chemical where he held various positions for 20 years. Mr. Dunkel joined Salabury in 1970 in its research and development department.



vice-president and ettlef financial ufficer of

DuBois Company, KALMAN E. BUCHOVECKY has been appointed market development manager and THOMAS L. FRANCIS (ccimology manager in the Alcoa Advanced Ceramies Division at



BUSINESS BRIEFS

Aluminum Company of America... DAVID K. IIAMEL has been named sales representative for the Adhesives Division of National Starch & Chemical Corporation.

MYRON A. FRANK has joined Stepan Company as director of marketing in industrial chemicals, BURT M. LIKE has joined as product manager, and FREDERICK G. RE-HBEIN has also joined as product manager.

MEETINGS CALENDAR



AMERICAN ASSOCIATION OF TEXTILE CHEMISTS & COLORISTS, inlamational conference and exposi-tion, Wastin Peachtree Plaza Hotal, Atlanta, Ga., Oc-

NOVEMBER

AMERICAN PETROLEUM INSTITUTE, annual meeting SAN Francisco, Calif., November 9-11.
AMERICAN SOCIETY FOR TESTING AND MATERIALS, 7th Symposium on Pesticide Formulations and Appli-cation Systems Phoenix Hillon, Phoenix, Ariz.,

CHEMICAL MANUFACTURERS ASSOCIATION, Chamilcal industry conference, Palmer House Hotel, Novembox 17-16, Chicago, III,

CHEMICAL MARKETING RESEARCH ASSOCIATION business school, personal computars in the work-place. Scannicon Executive Conterence Canter,

COSMETIC, TOILETRY & FRAGRANCE ASSOCATION,

clentific conference and exhibit, J.W. Marriott Hotel, Washington, D.C., November 2-5.
ORUG, CHEMICAL & ALLIEO TRACES ASSOCIATION,

DRY COLOR MANUFACTURERS ASSOCIATION, techni-

cal seminar, requirements under the Toxic Sub-stances Control Act, Histon Geteway Hotel, Gateway EUROPEAN PETROCHEMICAL ASSOCIATION, Intermodal Iransport seminar, Frankfurt Sheraton Hotel, Frankfun, West Germany, November 20-21.

FERTILIZER ROUNG TABLE, Sheraton Inner Harbor Hotal, Beltimore, Md., Novamber 17-19. FRAGRANCE MATERIALS ARSOCIATION OF THE UNITEO STATES, 10th international congress of ea-sentiel oils, fragrances and flavors, Ornri Shoreham Hotel, headquarters hotel, Washington, O.C., Novem-

K-'86, 10th international trade lair for plastics and rubber Dusseldori, Wesi Garmany, November 8-13, LATIN AMERICAN PETROCHEMICAL ASSOCIATION,

aixth annual meeting, Rio Palace Hotel, Rio de Janeiro NATIONAL PAINT & COATINGS ASSOCIATION, 99th

annual meeting, Aliania Hillon Hotel, Atlania, Gn., November 3-5.

LES ASROCIATION OF THE CHEMICAL INDUSTRY

PERTILIZER INSTITUTE, 1967 enrual meeting, Pertual meeting, Aliania, Gn., Orlando World Genter, Orlando, Fie, February

Orlando World Genter, Orlando World G BALES ASSOCIATION OF THE CHEMICAL INDUSTRY,

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, center for chemical process safety, international conference on chemical safety issues, Omni Shoreham Hotel, Washington, O.C., February 3-5.
CHEMICAL MARKETING RESEARCH ASSOCIATION.

Houston Meeting: "The US Chemical Industry-Re-aponding to Change." Westin Galleria Hetel, Houston, Tex., Fabruary 4-5, 1987. CHEMICAL SPECIALTIES MANUFACTURERS ASSOCI-ATION, 73rd annual meeting, Marrioll'a Harbor Beach Resort, Fort Lauderdete, Fla., December 7-11.

CHLORINE INSTITUTE, Winter meeting, Mayllower Hotel, Washington, O.C., March 15-18. ORUG, CHEMICAL & ALLIEO TRADES ASSOCIATION, 61at annual dinner, Waldorf-Astoria Hotel, New York.

INSTITUTE OF GAS TECHNOLOGY, 11th Int.

NATIONAL ASSOCIATION OF TORS, 15th annual meeting, Par Calmin 191, Naples, Fig., December 2.5.

SALES ASSOCIATION OF THE CHENCAL PROPERTY AND ADDRESS OF THE CHENCAL PROPERTY York, December 16; education con "The Psychology of Selling," Trackey

and Club. Goes Raton, Fig., January SOCIETY OF THE PLASTICS INC. conference of the reinforced plants suffer institute, Cincinnal Convention in the control of the

Cincinnali, Ohio, Fabruary 2-8.

police Christophar & Laughlin Inc., Rales of Washington and Oregon. Avecor piles color concentrates, liquid disperand blended dry colors to the plantics

portfolio investments department of Dow

weight polymers and polypropylene resins at

Himont USA., Inc... JOHN PREST has been

cultural Division of Hoechst-Roussel Agri-

Vet Company... KENNETH A. KRICK has

een elected president and clubel executive

officer of General American Transportation

Corporation, effective 1987.

MSTOL-MYERS US Pharmaceutical Brook, N.J., December 16.

SOAP AND DETERGENT ASSOCIATION and the division, Bristol-Myers Pharmaceutlem Meeting and industry Convenient soa Rest. Division, to market the process of the division of the divis ision, to market the company's line of the pharmaceutical products. The new illiell the product a under the "A pothelabel formerly used by Bristol Laborais in sell generic antibiotics to large

STITUTE OF GAS TECHNOLOGY, Total and a state of the state supply an operator training simulator for Indian Petrochemicals Corporation Ltd., Baroda, Indla. The simulator will be used to train plant operators in analog instrumentatioo and distributed digital control. Indian Petrochemicala baa also licensad Simcoo'a proprietary aimulation software.

> ENZON INC., South Plainfield, N.J., says It has been awarded a research grant from the National Institutes of Health to devalop PEG-urlcase for the treatment of hyperurlcemis and gout. Clinical studies at Vateran'a Administration Hospital in East Orange, N.J., Indicate that PEG-uricana is

REICHHOLD CHEMICALS Inc.'a Reactive Polymera Division has Introduced what the company describes as the first non-blushing, oon ataining polyester resin for use in auto body patch compounds. According to Reich-hold, the resin has been shown to be unaffected by UV attack with urethaces and most other commonly used top coats. UV attack is the most common cause of body patch blush-

WITCO CORPORATION'S Humko Chemical Division has introduced a fatty bisamide designed as a lubricant for powdered metal compounds. The "Kemamide" product is a micronized synihetic wax which burns clean molding aid because it sllows dense compacting of the powdered metal, Witco aays, and also offers a highly uniform particle size and a high melting point.

ELDIB ENGINEERING & Research Inc. Berkeley Heights, N.J., has published a guida to US injection molders of automobile parts. containing names of Injection motdars who are potential parinera in joint ventures with orlmary manufacturers and secondary subcontractors seeking to set up plants quickly in the US for domestic and foreign consumption of auto parts.

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CHEMICAL MARKETING REPORTER

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